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From President's Desk



In a changing economic scenario, India is aspiring to be the third largest economy in the World. In the years ahead rapid trajectory of urbanization is bound to offer major challenges to the Professionals in the Infrastructure, especially the Buildings. This would place undeterred demands on the Professionals to make the Cities resilient, sustainable and inclusive.

Rapid transformation of the Cities around the world are throwing up multifaceted challenges of inadequate infrastructure including water supply & drainage, lack of affordable housing, adverse effect of Climate Changes, never ending traffic jams & evolving of efficient mass transportation system and conflicting demands emerging from social inequalities.

This 2nd Quarter (July-Sept., 2024) edition of Built Environment is dedicated to the theme of World Habitat Day, 2024, "Engaging Youth in creating Better Urban Future" which is observed on 7th Oct, 2024 by the Chapters of IBC.

This theme is of much relevance to our Country, as it has embarked upon mega infrastructure project in various sectors of our Economy namely: Civil Aviation, Housing, Railways, Highways, Medical & Education Sector, Tourism, Inland Waterways etc. Expectations of various Stakeholders from Civil Engineers have grown many fold. The challenges are further compounded by increasing societal expectations, complexities of projects, rapid advent of new technologies, skilled human resources and quality related issues.

India of today is the young India and as Country moves to Vikshit Bharat-2047 stage, the role of youth is of paramount importance in taking our country to the next level of infrastructure development.

It is important for the Public & Private Sectors to increase the participation of the youth in planning and development of projects. No country can progress by ignoring youth and it is important that policy formulation and implementation takes care of the young generation.

There is rapid influx of technology in the construction sector over the last two decades and it has made it imperative to not only to keep pace with these technological advancements but also to channelize these into development of Cities which meet varied societal expectations. Advent of Artificial Intelligence, Internet of Things, Blockchain, BIM and other technologies in the construction sector have thrown up opportunities and challenges for the practicing engineers.

Despite all the pressing challenges facing the Cities, I am confident that Build Professionals shall effectively overcome these and help in creating an enlarged urban landscape meeting conflicting societal demands and leading to a inclusive and prosperous India of tomorrow.

Indian Buildings Congress is making concerted efforts, by way of organizing training programs, Technical lecture series, Seminars/Workshops throughout the Country through its' Chapters & Institutional Members, to bring all the professionals in build environment on a common platform to deliberate and evolve viable strategic interventions for effectively overcoming the challenges facing the Cities.

Let us strive to Create a Sustainable and Livable Built Environment.

(Er.C. Debnath)
President, IBC
Fmr. SE (Bldg), Tripura PWD

Space for Youth and India's Urban Future

A.K. Jain

Former Commissioner (Plg.), DDA

The theme of the World Habitat Day 2024 'Engaging Youth to Create a Better Urban Future' is timely, when India is moving to become a developed nation. According to India's National Youth Policy of 2014, the term "youth" refers to people between the ages of 15 and 29. In 2021, India's youth population is estimated to be 37.14 crore, or about 27.3% of the country's total population, which stood at 1,407,563,842.

India is moving towards a developed economy by the year 2047 and will have a population of 1,640 million, i.e. one-sixth of world's population, of which 50% each will be urban and rural (820 million each). Of this about 50% will be women. It will have the world's largest workforce and will be the world's third largest economy of \$36 trillion. It is projected that 75% of GDP and new jobs will be created in the cities. This requires giving space to the youth and leveraging their potential by incentivising them to live, play, learn, entertain and work in making India a developed nation and arousing their sense of belonging, esteem and self-development.

Youth is a wide and diverse canvas with regional characteristic in terms of gender, social, physiological, economic, environmental, emotional and other attributes. Thinking as an urban professional, making India as a developed country is not possible without giving space to youth for living, playing, working and self-development. The space must be affordable, universally accessible, safe and environmentally sustainable.

Youth 20 Communique

The Department of Youth Affairs, Ministry of Youth Affairs and Sports, Government of India organized the Youth 20 (Y20) Summit-2023 under India's G20 Presidency. During the summit, Y20 Communique was signed emphasising the need to empower the youth by skilling, learning, prepare them for global challenges, strengthen collaborations, promote worker rights and providing sustainable financing and mentoring. The universality, indivisibility, and integrated nature of sustainable development agenda with the inter-linkages between development, climate and environment was underlined. For this, the active involvement of youth was stressed upon.

Engaging the Youth

The Government of India in its budget 2024-25 has floated the idea of internship, which can be a spring board for active engagement of the youth in the urban sector. The budget has launched employment linked incentive schemes over five years. Scheme A will provide one month's salary as an incentive to first time employees entering the formal sector and registering with the Employees Provident Fund Organisation (EPFO). This will be up to Rs 15,000 in three instalments. This is expected to benefit 210 lakh young employees. Scheme B aims to help create jobs in manufacturing. It provides EPFO incentive linked to the scale of hiring over the first four years of new hiring. It aims to benefit 30 lakh workers. Scheme C targets employers, reimbursing up to Rs 3,000 per month of employers' contribution to the EPFO for two years. The workers must be new contributors to EPFO and have a salary below Rs 1 lakh/month. This is expected to benefit 50 lakh new workers. The number of beneficiaries projected by these schemes is 290 lakhs. The internship programme is voluntary which will leverage the young persons by faster hiring, lower attrition and higher productivity. The internship programme promotes learning by earning, learning by doing, learning with qualification modularity, learning with flexible delivery and learning with signalling value.

New Age Technologies

The youth and new age technology are closely intertwined. The ICT (Information and Communication Technology), Artificial Intelligence, Big Data Analytics, Machine Learning, Deep Learning, blockchain, GIS, GPS, etc. are disrupting the urban space. The digital technology and informatics have multiplied space, energy and time. New forms of energy, services, construction and recycling are characterized by online exchange of information, interactions, dynamic networks and floating nodes. Integration of land use, utilities, transport and buildings on a common network helps optimize space and its configurations (Figs. 1 & 2).



Fig. 1: Circular Economy is Restorative, Regenerative and Circulatory
 Source: Khan, Khalil Uttah (2022) Wastewater Reuse, Linear Economy to Circular Economy, Shashwat, TERI, New Delhi

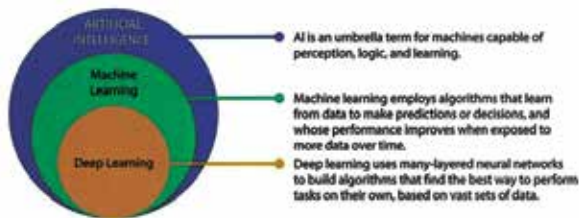


Fig. 2: Components of Artificial Intelligence

Source: Verma, Seema, Towards Data Science, Shashwat (2022) TERI, New Delhi

Spaces for Work

The foremost priority of the youth is a job for living. Unemployment and underemployment are the major issues of urban and rural youth. With lack of jobs in the formal sector, the youth are shifting to small businesses, vending and as labourers. It is necessary that a network of spaces for informal sector are mandatorily provided for them (Fig.3). Business premises, co-working spaces and MSME clusters for youth, which are affordable and

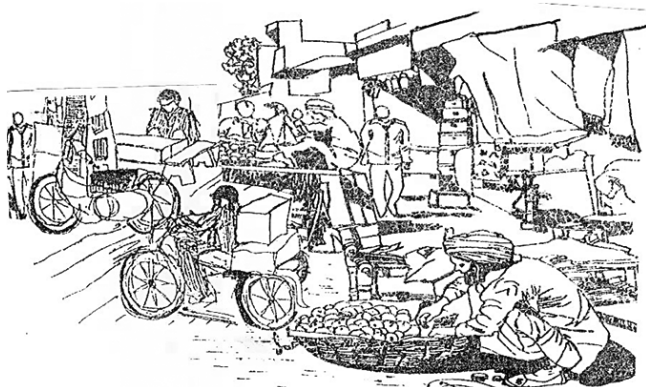


Fig. 3: About two-third surban jobs are in the Informal Sector, generating one-sixth of the GDP and using less than 5% of electricity, water and urban space/land

Jain A.K.(2011) Informal City, Readworthy, New Delhi

sustainable, can go a long way in self-employment of the professional youth (Fig.4).



Fig. 4: Kruggen, a green, net zero, circulatory building in Sweden, provides co-working spaces

To help the youth engaged in vending business, the handcarts can be redesigned with better logistics, storage, packaging and services which can enhance their incomes. Graduate School of Design, Harvard University has proposed design of electric carts for street vendors which can meet the contemporary needs of the fruit and vegetable retailing (Fig. 5).

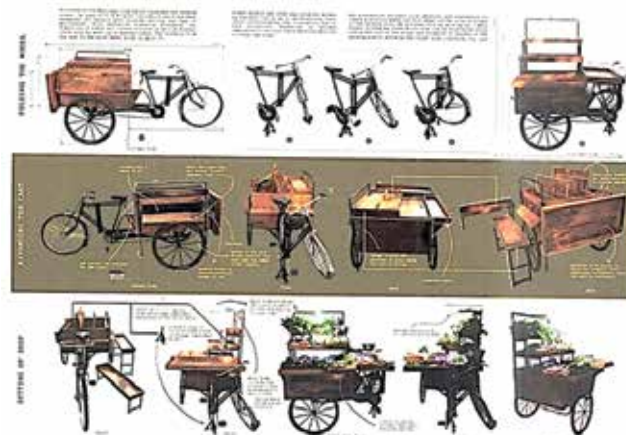


Fig. 5: Electric Cart for Street Vendors

Source: Gauri Nagpal (2023) Seed for Change, Electric Carts for Street vendors, Graduate School of Design, Harvard University, Cambridge, MA, USA.

Spaces for Living

After the partition of the country in 1947, about 5 lakh refugees in Delhi were provided about 1 lakh shelter/plots (80 sq. yd.) in 36 Rehabilitation Colonies. This transformed their life and enabled them to contribute towards building the nation and the city. Later Delhi Development Authority developed about 4,00,000 plots (21 sqm each) for homeless/slum/JJ dwellers. This

changes their social and economic life, shifting from street vendors, vendors, domestic workers and jobless to productive, self-reliant citizens. It is the space that make the difference. In view of low level of income and uncertain jobs, shelter is the major issue of the youth. Many migrants, youth and labourers, do not have shelter and often live on pavements. As a human right, they should be accommodated in the night shelters, which are to be located near the Railway Stations, Bus Terminals, major markets and work centres (Fig. 6). Existing facility buildings can also be used for night shelter. Night shelters and associated facilities can be economically and quickly built by recycling shipping containers. Delhi Government has built Mohalla Clinics by recycling these containers (Fig. 7).



Fig. 6: A modular prefabricated night shelter

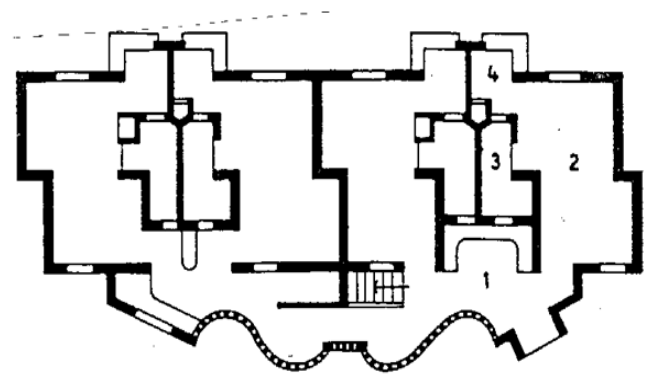
Source: Jain A.K. (2020) Housing and Community Planning, Discovery Publishing House, New Delhi



Fig. 7: A primary healthcare centre built out of used shipping containers for Delhi Government Mohalla Clinics programme, Architect Akshat Bhatt

Gradually, the youth can avail rental accommodation in various forms such as given below:

Youth Hostels were initiated about 80 years ago under the German Youth Movement to let poor city youngsters get affordable accommodation. The youths are supposed to manage the hostel themselves to keep the costs down. In India, hostels for women have been built in some cities (Fig 8).



GROUND FLOOR PLAN (TYPICAL)

Fig. 8: Trivandrum, Women's Hostel, Laurie Baker, Architect

Source: Gautam Bhatia (1991) Laurie Baker- Life, Works and Writings, Viking/Hudco, New Delhi

Though not very common, a mobile hostel can exist in the form of a camp site, a temporary building, bus or a van. Mobile camps have sprouted up at large festivals, like the Kumbh Mela, which provide budget accommodation to pilgrims, young backpackers or students.

Bed and Breakfast is usually a small lodging establishment that offers accommodation and breakfast. With enormous growth in cities like Delhi, Kolkata, Chennai, Hyderabad, Ahmedabad, Pune, Bangalore and Mumbai, Bed & Breakfast is becoming a favourite option among the young professionals and business person.

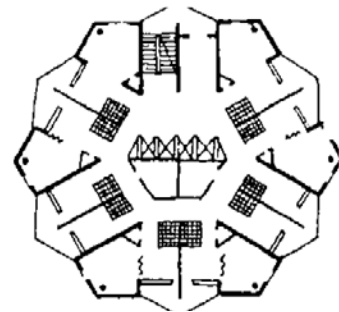


Fig. 9: Dormitories and Youth Hostels cater to the housing needs of the single professionals, working women, students, etc.

Source: Chiara, Joseph D (1995) Time Saver Standards for Residential Development, 2nd Edition McGraw Hill, New York

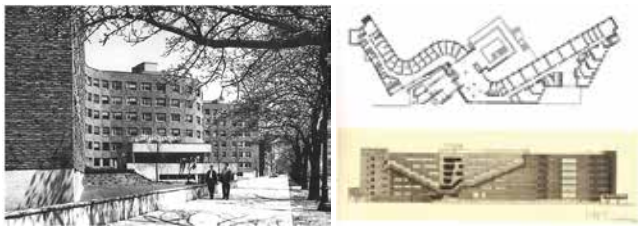


Fig. 10: MIT Dormitory, Architect Alvar Aalto

Dormitory: A dormitory provides a cheap boarding for a young people, workers and students. Many colleges and universities provide variety of dormitories, hostels and single rooms usually with communal bathroom facilities, internet facilities, Wi-Fi, computer room, kitchen and a laundry room (Figs. 9 & 10).

Boarding and Lodging: Boarding and lodging generally accommodate students and visitors in minimum space. These may have bunk beds with common toilet facility.

Unauthorised Colonies/Slums: In Indian cities the percentage of population living in slums varies from 19% in Delhi, 32% in Kolkata to 54% Mumbai. A large proportion of housing exists in old villages / unauthorised colonies which is fragmented, dilapidated and deficiently serviced. This can be redeveloped in a composite manner with proper infrastructure services (Fig. 11).

Skeleton housing with evolutionary services can be provided for construction, completion and furnishing by the owners themselves according to their needs,



Fig. 11: Composite redevelopment of fragmented properties in an unauthorised colony

Source: ITPI Journal, Jan-Mar. 2019



Fig. 12: Skeleton Housing, Port Elizabeth, Architect Jo Nooru

tastes and resources (Fig. 12). The basic infrastructure services can be provided in an evolutionary mode to reduce the initial cost (Fig. 13). Such a concept has been implemented by B.V. Doshi in Aranya Township, Indore (Fig. 14). Low-cost housing by Laurie Baker provides a good template for economical low energy living (Fig.15).



Fig. 13: Evolutionary Housing and Infrastructure Development

Source: Deependra Prasad, New Architecture and Urbanism, INTBAU, New Delhi, 2006

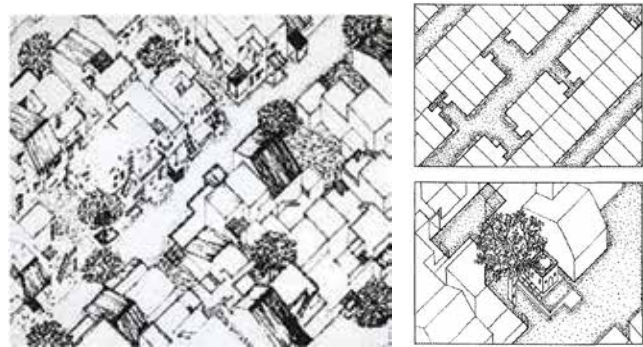


Fig. 14: Aranya Township, Indore, Architect: B.V. Doshi, with staggered streets, community spaces, incremental housing and services

Source: Jain A.K., Housing and Community Planning, Discovery Publishing House, New Delhi, 2020

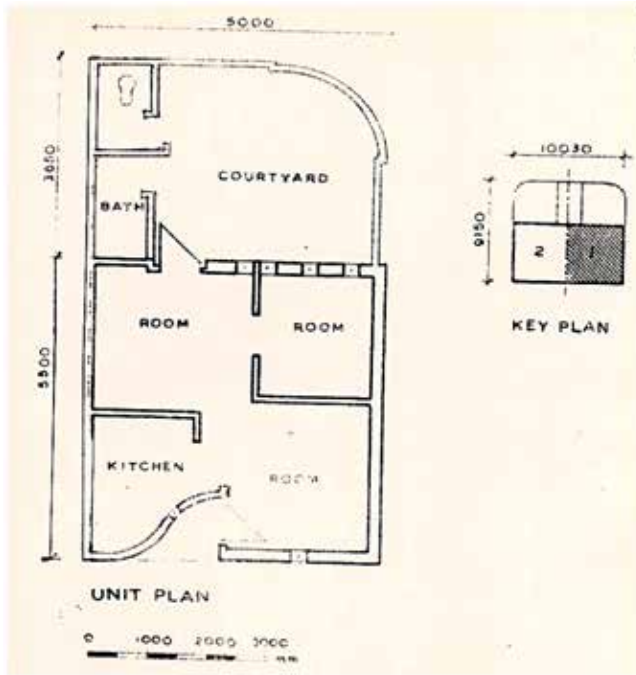


Fig. 15: A 27.5 sqm House with rat trap bond brick wall, burnt brick paving, frameless doors and windows, no plastering and brick shell roof, Architect Laurie Baker

Source: Bhatia, Gautam (1991), Laurie Baker- Life, Work and Writing, Viking/HUDCO, New Delhi

The housing design seeks the formation of the communities and addresses the concerns of jobs, transport, safety from floods and disasters, availability



Fig 16: Common Courtyards for the Community, Women and Children

Source: Jain A.K. (2020) Housing and Community Planning, Discovery Publishing House, New Delhi

of services (water supply, power, drainage, sanitation/ sewerage) and health, education and other amenities. The green areas, parks, tot-lots, play areas, chowks, and squares are integral to housing.

The housing development provides safe spaces and facilitates self-help and public participation. It provides a common slots of vocations by the women, like coaching, sewing, making pickles and food items for sale (Figs. 16 &17).

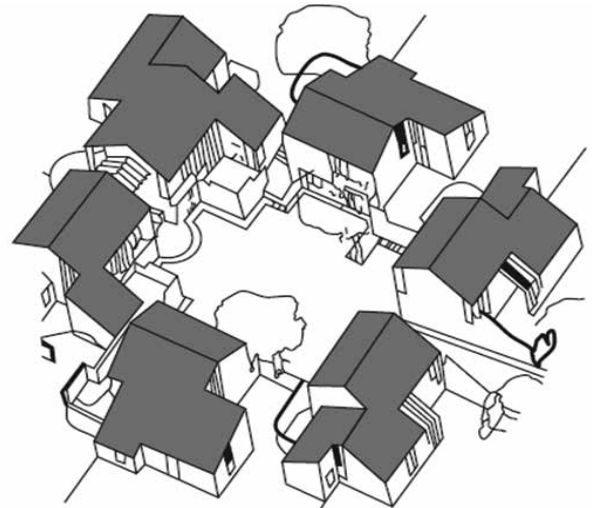


Fig. 17: Common green around houses acts as a community courtyard (Charles Correa)

Source: Frampton Kenneth (1996) Charles Correa, Perennial Press, Mumbai

By modular approach, standardised components can be prefabricated off-site and assembled at site. This allows

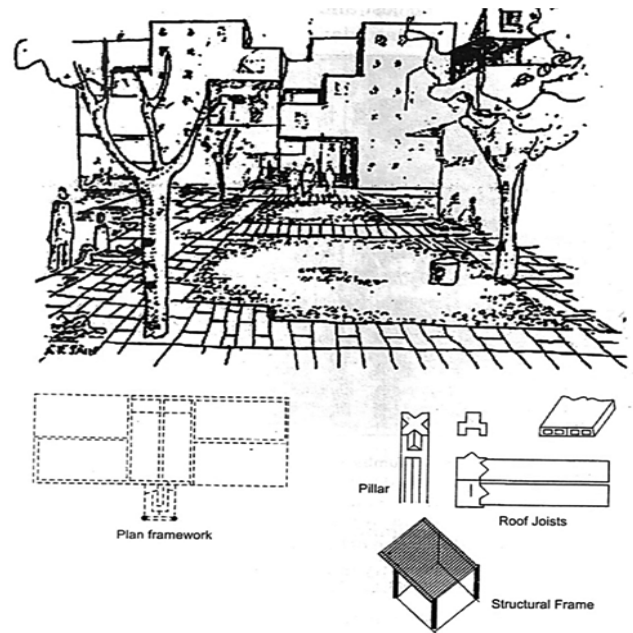


Fig. 18: A Skeleton with standardised prefab components provides a wet core for expandable houses (A.K. Jain)

Source: Jain A.K. Environment, Urbanisation and Development, Discovery Publishing House New Delhi

various permutation and combinations of housing design and construction, which are quick, economical and promote self-help (Fig. 18).

Youth Centres aim to provide dedicated space for the youth such as a library, community/multipurpose hall for cultural performances, cinema, theatre, entertainment programmes, etc. It can also provide a gym, banking, health and computer facilities (Fig. 19).

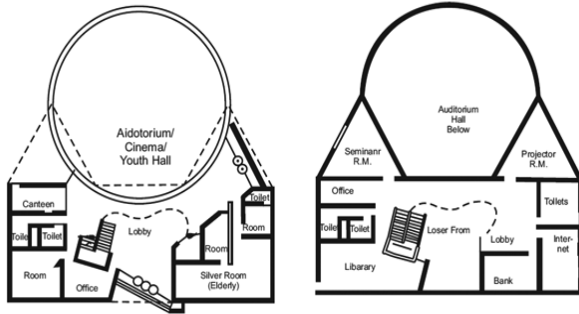


Fig. 19: A youth centre with multipurpose hall for cultural performances, banking, library, health and computer facilities

Source: Jain A.K. (2020) Housing and Community Planning, Discovery Publishing House, New Delhi

Schools and Educational Buildings

With rising level of education and New Education Policy, it is necessary to upgrade and enhance the old school buildings keeping in view the needs of space, climate and resources (Fig. 20). The facilities can be categorised under basic needs, well-being needs, opportunity needs, and amenity needs, which serve all, including the youth. As far as possible existing facilities should be strengthened and enlarged.



Fig 20: Lakdi ki Kathi School Extension, Ghuggukham Village, Uttarakhand, Architect Kishan Shah

Source: IIA Journal, November 2022

For strengthening the spirit of sports and culture among the youth, indoor halls can be built for music events, sports and public ceremonies. These can be quickly and economically erected as pneumatic pre-engineered structures (Fig 21).

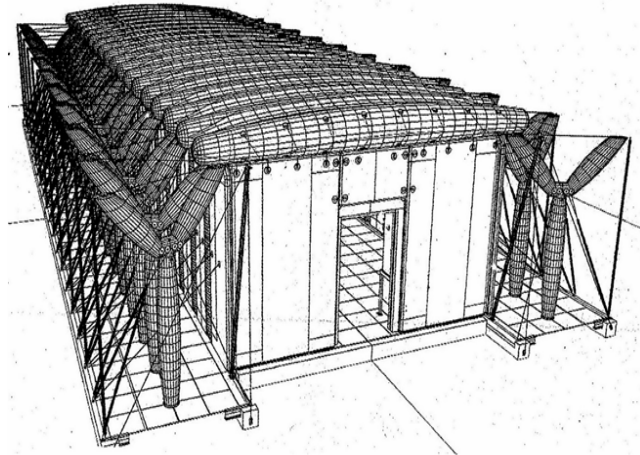


Fig. 21: Pneumatic Airstructure Air Hall, Esslingen, Germany, Festo Corporate Design. One of the most economical and quickly erected structure

Kronenberg, Robert (1996) Portable Architecture, Routledge, UK

Sports, Playgrounds and Stadium

The open spaces and playgrounds are very important for children, youth and others. A local park and playground is mandatory at neighbourhood level (10,000-15,000 population), A community park-cum-sports centre is required for a population of 1 lakh, which can be integrated with the school (Fig, 22).

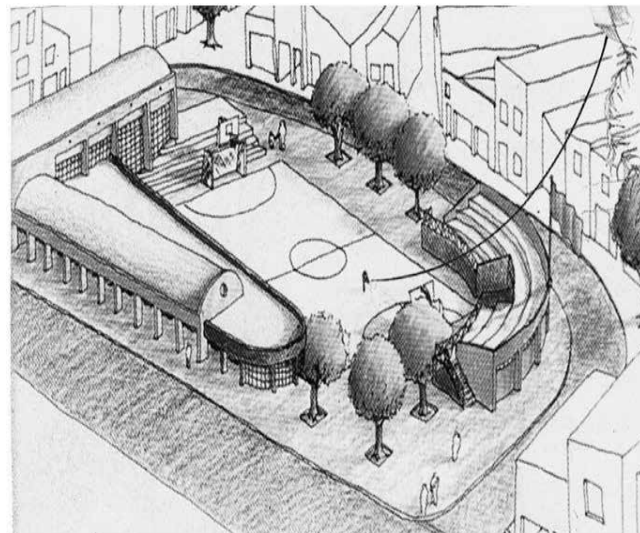


Fig. 22: A playground can be developed as a mini stadium-cum-amphitheatre

It is necessary that the tot-lots and play areas are safe from traffic and pollution and are furnished with the rain shelter, water fountain, seats, play equipment, lighting, etc. (Fig. 23)



Fig. 23: A Tot-lot

Source: Playponics



Fig. 24: Urban Sequoia concept presented at COP 27, Egypt, (2022) by SOM.

New technologies enable design of a visionary urban form which addresses the issues of jobs, carbon removal, climate change and pollution.

Source: Joann Gonchar, The Big Drawdown, Architectural Record, March 2022

Conclusion

While India is moving towards a developed nation by the year 2047, its youth is facing the challenges of employment, housing and infrastructure services. The theme of World Habitat Day 'Engaging Youth to Create Better Urban Future' makes us think how our huge the youth power can be mainstreamed in the national development agenda. The focus has to be on giving space to the youth and new technology that can create a new urban vision (Fig. 24).

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Empowering Youth for Urban Innovation: Catalysing Sustainable and Inclusive Future Cities

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Abstract

This paper explores the essential role of youth in driving urban innovation and sustainability, emphasizing their potential to shape inclusive future cities. As urban populations continue to grow, with a significant proportion under the age of 18, empowering young people to participate in urban planning is crucial for creating resilient and sustainable urban environments. This paper reviews various initiatives and case studies that highlight effective strategies for engaging youth in urban innovation, addressing barriers to participation, and leveraging technology to amplify their voices.

Introduction

Urbanization is one of the defining trends of the 21st century, with over half of the world's population currently residing in urban areas, a figure projected to rise to nearly 68% by 2050 (United Nations, 2019). This rapid urban growth presents both significant challenges and opportunities for cities worldwide. Among these challenges are issues such as overcrowding, inadequate infrastructure, environmental degradation, and social inequities. As cities evolve to accommodate increasing populations, it becomes imperative to engage diverse voices in urban planning processes — particularly those of young people.

The demographic significance of youth in urban settings cannot be undermined. According to the United Nations (2019), approximately 60% of urban populations will be under the age of 18 by 2030. This "youth bulge" represents a critical opportunity for cities to harness the creativity, energy, and innovative potential of young individuals. Engaging youth in urban innovation not only addresses their specific needs but also fosters a sense of ownership and responsibility

towards their communities. Young people often bring fresh perspectives and are more inclined to adopt sustainable practices compared to older generations (Furlong & Cartmel, 2007). Their involvement in shaping urban environments can lead to more effective solutions that resonate with contemporary values and priorities.

Moreover, the digital revolution has transformed how youth interact with their environments and participate in civic life. As digital natives, young people are adept at using technology to communicate, collaborate, and advocate for change. Initiatives that leverage digital platforms can empower youth to engage meaningfully in urban planning processes. For instance, partnerships between organizations like UN-Habitat and gaming platforms such as Minecraft have demonstrated how technology can facilitate collaborative design efforts among young people (UN-Habitat, 2021).

Despite their potential contributions, youth often face significant barriers that hinder their active participation in urban governance. Ageism and institutional biases frequently lead to the perception that young individuals lack the capacity or experience necessary for meaningful involvement in decision-making processes (Bessant, 2008). Additionally, many young people encounter obstacles such as limited access to resources, training opportunities, and mentorship programs that could enhance their skills and confidence in engaging with urban issues (Harris & McGowan, 2018).

In light of these dynamics, this paper seeks to explore how empowering youth can catalyse urban innovation and contribute to building sustainable and inclusive future cities. By examining successful case studies and identifying pathways for engagement, this research aims to highlight the critical role that young people

can play in shaping resilient urban environments that reflect their needs and aspirations.

- **Indian policies for youth empowerment**

Indian policies have significantly been reformed and worked upon. Following are some of them

- **Start-up India**

The goal is to encourage entrepreneurship and support start-ups, particularly those tackling urban challenges such as infrastructure, smart cities, mobility, and sustainability. Young entrepreneurs stand to gain significant benefits, including easier access to funding through venture capital, angel investors, and government-backed financial programs. Additionally, they can take advantage of tax exemptions and simplified regulatory processes designed to make it easier for them to start and grow their businesses. The involvement of youth-driven start-ups in sectors like waste management, transportation, and smart infrastructure plays a crucial role in fostering sustainable and inclusive urban development, ultimately shaping a more efficient and resilient urban future.

- **Smart Cities Mission**

The aim is to advance cities that offer essential infrastructure, a clean and sustainable environment, and a high quality of life through innovative solutions. Young professionals benefit from this focus by gaining opportunities in fields such as urban planning, Internet of Things (IoT) development, and sustainable design. They can also engage in hackathons and innovation challenges, allowing them to contribute smart solutions to urban issues. By leveraging the creativity and skills of young individuals, cities can develop technology-driven urban spaces with enhanced services, smarter infrastructure, and increased liveability.

- **AMRUT (Atal Mission for Rejuvenation and Urban Transformation)**

The goal is to enhance fundamental urban infrastructure in Indian cities, focusing on improvements in water supply, sewerage systems, and green spaces. Young people benefit from this initiative through increased job opportunities in urban infrastructure projects and access to training programs aimed at developing skills in urban planning and public service management.

Engaging youth in the AMRUT program's efforts is crucial for creating sustainable urban infrastructure that can accommodate the demands of a growing population and increasing urban migration.

- **National Urban Livelihoods Mission (NULM)**

The aim is to alleviate poverty and reduce vulnerability in urban areas by helping the urban poor, including young people, secure self-employment and skilled wage employment opportunities. This initiative benefits youth through skill development programs designed to boost their employability and by providing support for establishing micro-enterprises in urban settings. By equipping disadvantaged urban youth with essential skills and fostering economic self-reliance, the mission promotes greater inclusivity within urban economies and contributes to a more equitable urban future.

- **Make in India**

The objective is to stimulate manufacturing in India, particularly in urban sectors such as infrastructure, transportation, and technology. This initiative benefits young people by creating job opportunities in key areas of urban development, including real estate, smart technologies, and public transportation. Additionally, it offers them the chance to innovate and design products that address the needs of urban development. By fostering young talent in these fields, the policy contributes to the creation of sustainable urban economies and supports the development of effective urban solutions.

- **Skill India Mission**

The aim is to empower young people by equipping them with skills that enhance their employability in emerging sectors. This initiative offers free training programs in fields such as urban construction, energy-efficient technologies, and public administration. It also provides placement support for those seeking employment in urban development and related industries. By developing a skilled workforce, the program enables youth to contribute to urban transformation through the adoption of sustainable construction practices, efficient energy use, and the implementation of smart city technologies.

- **Urban Learning Internship Program (TULIP)**

The aim is to offer internships to recent graduates with urban local bodies and smart city projects, giving them the opportunity to engage in urban development initiatives. This program provides young people with practical experience in city planning, municipal governance, and urban policy, while also exposing them to real-world challenges in urban administration and infrastructure development. Through TULIP, youth gain the skills and experience needed to influence the future of cities, participating directly in projects related to public transportation, housing, and green spaces.

of youth in driving its smart city efforts, especially in digital infrastructure, innovation, and citizen engagement. As part of this initiative, college students were appointed as "Youth Ambassadors for Smart Bhubaneswar." Their role was to raise awareness about various smart city solutions, including waste management applications, smart parking systems, and e-governance services.

- **Bhopal Smart City Initiatives**

Bhopal's smart city initiatives include an integrated command center that monitors essential services such as traffic, water supply, and public safety. The city has also deployed smart poles equipped with Wi-Fi, surveillance cameras, and environmental sensors, enhancing connectivity and safety.

Case Studies of Successful Youth Engagement

Engaging youth in urban planning and development has proven effective in various contexts around the world. This section highlights various case studies that exemplify successful youth engagement initiatives:

- **Pune's Youth for Urban Mobility Initiative**

Pune, a rapidly expanding city in Maharashtra, has been grappling with issues such as traffic congestion, pollution, and insufficient public transportation. In response, city authorities launched the Youth for Urban Mobility initiative to engage young people in enhancing public transport systems and encouraging non-motorized transportation methods like cycling and walking.

Key initiatives included organizing workshops by the Pune Municipal Corporation (PMC) where students and young professionals contributed ideas for better mobility solutions, such as new bus routes, cycle lanes, and pedestrian pathways. Youth groups also led digital campaigns on social media to raise awareness about the advantages of public transport and cycling, which attracted considerable public interest. Additionally, collaborations with NGOs led to practical suggestions, including cycle-sharing programs and the introduction of electric buses. Pune has also launched IoT (Internet of Things) sensors for parking and has led to less congestions in parking.

- **Bhubaneswar's Smart city Mission**

Bhubaneswar, one of the initial cities chosen for India's Smart City Mission, focused on leveraging technology to advance sustainable urban development. The city acknowledged the vital role

Importance of Youth Engagement

Firstly, youth bring unique perspectives and innovative ideas that can significantly enhance urban planning processes. Their fresh viewpoints challenge traditional approaches and introduce new solutions that are often more aligned with contemporary values, particularly regarding sustainability and social justice (IUCN, 2023). For instance, youth-led movements like "Fridays for Future" have successfully placed climate change at the forefront of global policy discussions, demonstrating the transformative power of young advocates in shaping environmental policies (IUCN, 2023).

Challenges faced by Youth

Despite the enthusiasm and potential of youth to contribute meaningfully to urban planning and community development, several barriers hinder their active participation. These obstacles can be categorized into structural, institutional, and socio-cultural factors that collectively limit the engagement of young people in decision-making processes.

One significant barrier is ageism, which manifests as a lack of recognition of youth as valuable contributors to urban planning. Many adults and decision-makers often perceive young individuals as lacking the necessary experience or knowledge, leading to their exclusion from meaningful participation (UN-Habitat, 2021). This age-related bias can result in young people being consulted only superficially on issues that directly affect them, rather than being included in substantive decision-making roles.

Additionally, institutional barriers play a critical role in limiting youth engagement. Bureaucratic processes can be complex and uninviting for young participants,

who may lack familiarity with formal governance structures (Norss, 2021). The rigid timelines and budget constraints within urban planning often do not accommodate the dynamic and flexible approaches that youth might propose. Furthermore, a lack of institutional support and mentorship can leave young people feeling unsupported in their efforts to engage with urban governance (Deb, 2023).

Socio-cultural factors also contribute to the barriers faced by youth. In many communities, traditional norms and values may prioritize adult perspectives over those of younger generations, leading to intergenerational conflicts (Lalitha, 2023). Cultural expectations can discourage youth from voicing their opinions or participating actively in community discussions. Additionally, factors such as gender inequality can further marginalize specific groups of youth, particularly young women and girls who may face additional challenges in expressing their views or accessing platforms for participation (Ochieng, 2022).

Finally, economic challenges such as poverty can also impede participation. Young people from economically disadvantaged backgrounds may struggle to find the time or resources to engage in community activities due to competing responsibilities such as work or family obligations (Ochieng, 2022).

Opportunities for Empowerment

Empowering youth to engage in urban planning and decision-making processes is essential for creating sustainable and inclusive cities. Several pathways can facilitate this empowerment, ensuring that young voices are not only heard but also integrated into the fabric of urban governance.

One effective pathway is youth-led initiatives, which encourage young people to take the lead in projects that address urban challenges. By providing resources, mentorship, and funding, municipalities can support youth in developing their own community projects, such as public art installations or social enterprises that promote positive change (Child in the City, 2023). This approach not only fosters leadership skills but also instills a sense of ownership among youth regarding their communities.

Education and awareness are critical components of youth empowerment. Integrating urban planning and civic education into school curricula can raise awareness among young people about urban issues, sustainability, and the importance of community participation (Power et al., 2009).

The Internet of Things (IoT) is essential for the transformation of urban areas, significantly enhancing the lives of young people. By enabling real-time monitoring of city infrastructure, IoT improves safety and maintenance. Smart transportation systems utilize IoT to streamline traffic flow and public transport, making commuting more efficient for youth. Additionally, IoT enhances public safety through advanced surveillance systems that allow for rapid emergency responses. It also supports environmental sustainability by monitoring air quality and optimizing waste management practices. Resource management becomes more efficient with smart grids, resulting in cost savings and reduced waste. Furthermore, IoT encourages youth engagement by providing access to real-time information about city services, empowering young residents to actively participate in their communities. Ultimately, the integration of IoT into urban settings leads to smarter, more efficient cities that meet the diverse needs of all inhabitants.

Fostering intergenerational collaboration is also essential for empowering youth. Encouraging dialogue between young people and older generations—including urban planning professionals—can create opportunities for mutual learning and understanding (Norss, 2021). Such collaborations help bridge the gap between different age groups, allowing for a more comprehensive approach to urban challenges.

Finally, it is crucial to ensure that the contributions of young people are recognized and translated into action. Incorporating their ideas into urban policies and development plans demonstrates a genuine commitment to youth participation (Child in the City, 2023). By following up on their input and providing feedback on how their suggestions were implemented or considered, cities can build trust with young participants.

In conclusion, empowering youth through these pathways not only enhances their engagement in urban planning but also contributes to the development of more vibrant, equitable, and sustainable cities. By recognizing the potential of young people as active contributors to urban governance, cities can foster environments where all residents thrive.

Conclusion

Empowering youth in urban innovation is not only a matter of social equity but also a strategic necessity for building sustainable and inclusive cities. As urban populations continue to grow, the unique perspectives

and innovative ideas that young people bring to the table are invaluable in addressing contemporary urban challenges. This paper has highlighted the critical importance of engaging youth in urban planning processes, emphasizing their potential as active stakeholders and change agents.

Through successful case studies like Brisbane's "Plan Your Brisbane" initiative, the Young Game changers Initiative by UN-Habitat, and Hampton's Youth Planners program, we see clear examples of how effective youth engagement can lead to meaningful contributions in shaping urban environments. These initiatives demonstrate that when young people are provided with the right tools, resources, and platforms, they can significantly influence the direction of urban development.

In conclusion, as we look toward the future of urban development, it is imperative that policymakers prioritize youth engagement as a core component of sustainable city planning. By recognizing and amplifying the contributions of young people, we can pave the way for innovative solutions that not only address current urban challenges but also lay the foundation for equitable and sustainable future cities. The time has come to embrace the potential of youth as partners in shaping their communities—a step that will ultimately benefit all residents and create a more just urban landscape for generations to come.

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Engaging Youth in Making Urban Areas More Sustainable, Liveable and Productive

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Abstract

With more people opting for the urban living and working, cities are becoming important for promoting economy, generating employment and providing infrastructures. Unsustainable urban growth, led by uncontrolled concentration of population in and the limited urban areas has numerous implications for human living. Globally, cities are fast emerging as areas of dualities and contradictions, adversely impacting human living and nature. Prime reason for unsustainable urban development can be attributed to non-involvement of urban youth, despite being in majority, in the process of urban planning and management. Making cities resilient, sustainable and inclusive, would require engaging and involving youth proactively in the art and science of planning, designing and management of cities. In search for sourcing appropriate options of involving youth in urban context, paper looks at the; prevailing issues creating roadblocks in the rational growth and development of the cities, explains the role and relevance of youth participation in the urban context, to address the emerging urban challenges and making value addition to cities.

Introduction

With 55% of the world's population recorded to be currently living in urban areas, nations across globe are experiencing rapid and massive urbanisation. Under the impact of rapid globalisation and liberalisation of the economies, urban population is estimated to grow to 68% by the year 2050. Ongoing massive addition to urban population is distinguished by large addition of younger population, under the age of 25 years, accounting for 45% of the total population. (UN-Habitat, 2020). Holding 18.6 per cent of global population (1.428 billion people) and following the global trends, India houses 27.2 per cent of population aged between 15-29 years. With average age placed at 29 years, compared to 37 for China and 48 for Japan, India holds large pool of young citizens. This demographic reality, involving large concentration of youth population in urban areas, presents both challenges and opportunities in the domain of

rationalising the prevailing pattern of urban planning, growth, development and management.

Globally, majority of cities are undergoing rapid transformation and numerous challenges in terms of; inadequate infrastructure, acute shortage of housing, rapid environmental degradation, and emerging social inequalities (World Bank, 2020). Studies made and analysis carried out globally have revealed that majority of prevailing urban ills have genesis in marginalising and muting the role and relevance of youth in urban planning, development and management (Fig.1).



Fig. 1 Acute Problem of Housing in Metropolises of India

Source; yahoo search.kufarooq3.blogspot.com

It has also been revealed that youth participation in urban design and planning is considered fundamental for equitable and rational development of urban spaces. However, despite having critical role, it has been observed that in majority of cases young people are often left out of urban planning and management decisions, due to prevailing social and structural barriers. In many developing countries, the disconnect between urban planning processes and the needs of young residents, has invariably led to the misuse, and abuse of urban infrastructures, that fail to support youth well-being and development. This mismatch has not only adversely impacted the quality of life for young people but also holds long-term implications for sustainability and resilience of urban communities. Accordingly, there exist an urgent need to identify and address the emerging gaps by examining the critical role, relevance and importance of involving youth in urban affairs and

define appropriate strategies for the meaningful youth engagement in making cities great places to live and work. Youth participation and engagement will remain crucial, if the challenges posed by the rapid urban development and uncontrolled urbanisation are to be met effectively and efficiently, for ushering an era of renewed, rational and sustainable growth of cities.

Need and issues of Involving Youth

Involving young people in urban context/affairs is considered vital and relevant for the reasons that they are not only the leaders of tomorrow, but can also play leading role in the rational development of their communities and cities. Researchers, practitioners, policy makers, and community members are beginning to realise and recognize, that youth must be valued and meaningfully engaged in the process of urban management for redefining the growth dynamism and rationalising the development of cities. Active engagement is considered important in developing countries where young residents, under the age of 25, often comprise up to 45% of the total population. In cities, where the proportion of youth is higher, the need to make them co-parceners in the process of urban development becomes all the more important.

It has been established that engaging youth in urban development can lead to achieving numerous benefits in terms of; optimising participatory planning, ensuring youth empowerment and promoting sustainable urban growth and development. Globally, two main approaches to youth engagement in urban context are being made operational which include; youth mainstreaming and youth-led development (UN-HABITAT, 2004). While Youth mainstreaming focuses on integrating young people's perspectives into existing institutional structures, whereas youth-led development empowers youth to initiate and manage their own projects and organizations. Both approaches have shown promise in various contexts regarding active involvement of youth in urban context. The potential of these approaches need to be appropriately leveraged to integrate youth with urban affairs.

Recent developments have expanded the role of youth to include concepts of digital citizenship and technological innovations. Since young people are known for their capacity and competency in the domain of digital literacy and technological fluency, which gives them a distinct advantage in making cities smart besides promoting a culture of digital governance at local level. Engaging youth, realistically appropriately and efficiently, can address the issues of

equity and inclusivity in urban development besides creating just and sustainable cities. Juxtaposing and making operational the perspectives of youth with the experience of older generations can help in sourcing more innovative and sustainable solutions for urban related problems.

Despite holding distinct advantages in the domain of making urban development more innovative, rational and transparent, still the role of urban youth has been marginalised, muted and diluted. The exclusion of youth from urban affairs can be largely attributed to the notions/ mindset prevailing among the agencies and authorities, involved and entrusted with the task of managing, planning and designing of cities and towns, that youth don't have adequate knowledge, understanding, experience and expertise in the domain of rational urban development and accordingly involving them may delay or derail the entire process of development. All development authorities and urban local bodies, operating at local level, are known to work in silos and believe in exclusion of the local people, communities and youth in the very process of planning, development and management, which is primarily directed to promote the welfare of such communities. Prevailing lack of understanding and distrust, on the part of local authorities, in assessing the capacity and capability of local communities in general and youth in particular, regarding making valuable contribution to the planning and managing cities, remains the major cause of the exclusion/non-involvement of the youth from urban affairs. Majority of policies and programme put in operation by the parastatal agencies at the state and local level for the urban development, give very little space for involving youth in the urban affairs. Existing administrative, physical, social, economic and structural barriers are known to be largely responsible for non-involvement of youth in urban development. These barriers will have to be critically and objectively looked at and appropriately revised and redefined, to create space for youth to become active/ able partner in the field of urban development at the local level.

Options for Involving Youth

Involving youth in urban development can yield dividends for cities, for the reason youth are known to contribute new perspectives/insight, by redefining their surroundings and ground realities more realistically and rationally. Deciphering and defining prevailing ground realities, realistically and rationally, have been considered and valued as critical and vital, for making urban planning process, more productive

and focussed. In addition, participatory process is universally recognised for its distinct advantage of helping/ enabling participating youth and communities to develop skills of becoming community builders and democratic citizens.

Key areas, where youth can make significant contributions and where potential of youth can be effectively leveraged/utilised, to rationalise the process of urban planning, development and management to make cities sustainable, liveable, inclusive and resilient, have been enumerated below:

- Rationalising Urban Planning by making Urban Spaces more meaningful:** As stated earlier, majority of urban ills has genesis in the fact that urban planning and development is largely monopolised and dictated by urban local bodies and parastatal agencies, marginalising the role and involvement of communities, citizens and the youth. Working in silos and excluding majority of stakeholders invariably leads to lack of understanding of the prevailing ground, realities on the part of agencies entrusted with the task of planning, designing and managing cities. Embedded with lack of understanding, appropriate skills, capacity, resources and manpower, invariably leads to the irrational and unplanned growth of cities and urban spaces. For these reasons, it becomes necessary to involve all stakeholders including youth for finding innovative, rational and realistic solutions to the problems of towns and cities to make them more productive spaces for human living. Engaging youth can help in not only in making urban spaces more accessible but also help in fostering a sense of ownership and community among users. In addition, youth involvement in urban planning can highlight critical safety concerns involving; need for providing better lighting and surveillance, which may be undervalued by others; making public spaces more productive by supporting diverse activities and social interactions; promoting inclusivity and reducing anti-social behaviour besides embedding innovative solutions for addressing environmental sustainability. Involving Youth proactively in urban planning can provide valuable insights into creating public spaces that are inclusive, safe, and responsive to young people's needs and make cities more livable, qualitative and productive.
- Making Cities and Communities Environmentally Sustainable:** Youth-led efforts

have been globally valued, for not only advancing sustainability agendas but also overcoming major ills/challenges facing the cities, by offering innovative solutions and options for mobilizing communities towards adopting eco-conscious practices. These innovations have been made operational in the area of; effective waste management, by not only promoting recycling and waste reduction, but also educating peers and adults, fostering broader environmental stewardship; creating and maintaining large number of green spaces for enhancing biodiversity and community well-being at the local level and rationalising urban traffic and transportation by promoting sustainable transportation, promoting accessibility and providing eco-friendly transportation options besides making city and communities safe and free from vehicular pollution. These efforts have not only addressed immediate environmental challenges but also have ushered an era/sense of environmental responsibility among communities, positioning youth as critical agents of climate change in shaping sustainable urban futures at local level. By empowering youth to lead initiatives, societies can leverage their creativity, passion, and commitment, to foster more resilient and environmentally conscious communities and cities (Fig 2).



Fig. 2 Principle of Urban Sustainability

Source; yahoosearch.talkenglish.xsrv.jp

- Empowering Cities and Communities:** Showcasing commitment and promoting community-based programs related to reducing poverty, responsible waste management, reducing energy usage, addressing diverse issues such as education, healthcare, and support for marginalized groups, enhancing accessibility, equity, and empowerment within communities, according less priority to own a car and opting for public transport or carpooling services, youth have clearly laid a roadmap for providing innovative options for solving major urban problems. These efforts

not only amplify youth voices but also contribute to transformative change by engaging young people as active agents in community development. By harnessing the innovative and out of box thinking, passion, creativity, and unique perspectives, youth-led programs have been valued to empower cities to overcome the major challenges posed by rapid and massive urbanisation besides finding appropriate/realistic solutions for strengthening community bonds, promoting social justice and cultivating sustainable solutions to complex societal challenges.

- Leveraging Technology for Innovations :** Known for their expertise and knowledge in the domain of technology, youth are best placed to ensure knowledge sharing, promoting operational efficiency and delivery of urban services and providing universal access to basic amenities. Young people's familiarity and ease with using digital technologies, can be effectively leveraged to qualitatively and quantitatively improve making provision and delivery of urban services besides ensuring citizen engagement. With youth, as early adopters and proficient users of new technologies, also makes them valuable contributors to smart city initiatives. For instance, a study by Chen et al. (2022) found that youth-led hackathons and tech challenges have resulted in innovative solutions for urban mobility, waste management, and public service delivery. Moreover, young people's active use of social media and digital platforms can enhance citizen participation in urban governance. Youth-driven digital platforms have successfully bridged communication gaps between local authorities and residents, leading to more responsive and accountable governance. Technology enabled youth have also contributed in preparing development plans on time bound basis for the city using GIS and other latest technologies in the domain of urban mapping. By involving youth in the planning, development and implementation of technological solutions, cities can address not only immediate urban planning and development challenges but also foster a culture of innovation that prepares them for future developmental challenges.
- Promoting Good Governance and optimising Accountability:** Involving youth, actively and rationally, in decision-making processes can enhance transparency, help holding local governments and making them more accountable and responsive to community needs. Bridging the gap, existing between decision-makers and

youth, can easily help in making youth active partners in urban governance and bringing transparency in decision making at the local level. Research indicates that youth participation in governance structures has led to framing and making operational more inclusive and responsive policies. Studies have also found that, cities with active youth councils experienced improved policy outcomes, particularly in the areas directly impacting young people such as education, recreation, and employment. Further more, youth involvement in participatory budgeting processes has invariably led to more equitable resource allocation and increased transparency in public spending. Young people's fresh perspectives and willingness to challenge the status quo can also serve as an effective check on prevailing corrupt practices and eliminate operational inefficiencies, prevailing in the local governance. By creating formal mechanisms for youth participation in urban governance, cities can cultivate a new generation of civic leaders while simultaneously improving the quality and accountability of local decision-making presses.

Way Forward

UN-Habitat's Global Solutions Division has stated that "The battle to achieve the Sustainable Development Goals will be won or lost in cities, and it will be young men and women who will be leading the charge through their innovation and drive". With 40% population of India, placed below 25 years, India is uniquely placed to leverage the strength of youth in making India global leader in the art and science of planning cities more sustainable and achieving the goals and agenda defined under SDGs. Looking at the context, it can be visualised that involving and making youth, as an active partner in the process of urban development will not be merely beneficial, but would be vital and critical for creating sustainable, resilient, and vibrant cities. Considering youth as critical thinkers, change makers, innovators, effective communicator and as leaders, rather than just being a passive bystander, can help in overcoming majority of urban ills. Actively involving youth in the process of urban planning and urban development can go a long way, in creating an enabling environment for ushering an era of renewed rational growth and development of urban areas. However, involving youth actively and rationally besides realizing this full potential in urban context, would require concerted, dedicated and focussed commitment and efforts from governments, civil society, and international organizations, on continued

basis at all administrative levels, to create meaningful opportunities and options for youth engagement. Following options would need focussed study, objective evaluation and effective implementation for spacing urban youth in emancipating urban areas to make cities better places to live and work:

- Developing comprehensive youth supportive Policies spanning across, urban planning, development and management framework, ensuring youth voices are spaced, valued, heard and cared in making local governance more responsive, effective, efficient and people centric besides inducting transparency in decision making by bridging existing gap between ULBs and Communities.
- Redefining structure of Urban Local Bodies and Development Authorities by creating dedicated cells and defined positions within the organisation structure for involving youth and communities, effectively and efficiently.
- Allocating adequate and dedicated Resources for promoting and ensuring youth-led initiatives and undertaking capacity building programs, including funding for youth organizations, undertaking training programs, and youth-focused urban development projects.
- Reforming and Redefining Education Systems and Involving educational institutions for creating awareness and preparing young people for active citizenship and innovation in urban contexts, incorporating civic engagement and community service into study curricula and training module.
- Creating appropriate institutional and policy mechanisms for making youth integral part of the decision-making processes at the local level both as a leader, stakeholder and as an active coparcener; by establishing youth advisory boards, implementing youth quotas in city councils, and developing youth-friendly consultation methods.
- Investing in digital infrastructure and platforms for facilitating participation of youth in promoting transparent and efficient urban governance and leveraging their technological skills for enhancing civic engagement and improving delivery of urban services.
- Empowering Youth for active participation in local affairs by increasing the access to information, providing opportunities developing hard and soft skills, fostering collaboration between private, public, and youth organisations, providing

incentives to pursue entrepreneurial ventures.

- Incentivising Youth by recognising and valuing their ideas/contribution made in providing cost-effective solutions for local problems, raising resources, optimising available resources, resolving social conflicts, galvanising communities/residents in framing and implementing local projects, implementing national/state policies and programs undertaken under various urban related missions and yojanas and making cities safe, inclusive, sustainable and liveable
- Organising Competitions on regular basis for involving youth, citizens and communities to share their ideas, vision and understanding about the options for promoting planned development and management of the existing city and new development projects to be undertaken for promoting sustainable development.
- Collaborating with international organizations and networks to share best practices of youth engagement in the domain of urban planning and development at local level.

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Unlocking the Demographic Potential: Engaging Youth in Urban Development

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Introduction

Urbanization is rapidly accelerating globally, presenting cities with intricate challenges related to climate change, infrastructure, economic inequality, and population growth. Currently, over 4 billion people live in urban areas. The United Nations predicts that by 2030, 60% of the global population will reside in cities. India, which is currently 35% urban, is projected to reach an urbanization level of 53% by 2047. This growth implies that India's urban population will double, adding about 400 million more people to its cities, which indicates that India's future prosperity critically depends on how effectively it manages this urbanization process.

At the same time, the world is experiencing an unprecedented bulge in the youth population. Globally, youth, aged 15-24 years, comprise nearly one-fifth of the world's population. India, with 66% of its population, approximately 808 million people below the age of 35, has the largest youth population in the world. By 2030, 24% of India's population will be in the 15-29 age group, representing a significant demographic dividend that, if harnessed, can substantially contribute to the country's urban growth.

Youth as Agents of Change

The 2030 Agenda for Sustainable Development highlights that "children and young women and men are critical agents of change and will find in the new Goals a platform to channel their infinite capacities for activism into the creation of a better world." Youth are integral to their local communities: they help shape its culture and they have extensive social connections. Youth can function as agents of change both individually and collectively within the community, any place where they belong and associate.

Historically, top-down approaches have characterised urban development, where decision-making has primarily been confined to government bodies,

developers, and city officials. However, as urban environments continue to expand, the importance of youth involvement as active contributors has become increasingly evident. Their involvement in governance structures, infrastructure development, and environmental management will ensure cities are equipped to manage future growth and mitigate emerging challenges. India's considerable youth demographic provides a unique opportunity to leverage this group as a critical driver in urbanization. The active participation of youth in these areas will be fundamental to ensuring that the urbanization process is managed effectively and aligned with related long-term objectives. Youth are best suited to voice the issues they encounter in their day-to-day lives. Today's youth are tomorrow's future, and if their opportunities are denied now, they will be less likely to take up constructive roles in the coming years. Youth should be seen as partners in community development programs. Proactive policies that promote youth development will provide avenues for their participation in community actions.

Empowering the Changemakers: Building a Supportive Ecosystem

Several policies and legislative measures have been introduced globally and in India to enhance youth involvement in development processes, which is essential for sustainable urban growth. In particular, India's National Youth Policy (NYP) 2021 provides a comprehensive framework for youth engagement in areas such as education, employment, entrepreneurship, and leadership. The policy aligns with the Sustainable Development Goals (SDGs) and emphasizes inclusive development for marginalized and disadvantaged youth. NYP 2021 aims to equip young people with the skills necessary for participation in governance and urban planning, ensuring that cities are designed with youth in mind. Further, the National Youth

Commission Bill, 2024 in India proposes the creation of a National Youth Commission to bridge gaps in education and employment while involving youth in governance, particularly in urban areas. This bill is crucial for ensuring that cities reflect the aspirations and needs of their younger populations.

Establishing structured platforms for youth engagement, particularly in skill development, entrepreneurship, and civic participation, will be key to unlocking the potential of this demographic dividend. Over the years, various government-led programs have been set up to develop talent, encourage innovation, and support youth entrepreneurship.

Some of such initiatives are-

1. “Viksit Bharat @2047” is the vision to transform India into a developed nation by the year 2047, marking the 100th anniversary of independence. This vision focuses on achieving comprehensive development across key areas, including economic growth, social progress, environmental sustainability, and good governance. In alignment with this vision, the ‘Viksit Bharat @2047: Voice of Youth’ initiative aims to actively involve the youth of India in shaping the country’s future. This initiative provides a platform for young people to contribute their ideas and perspectives towards the national plans, priorities, and goals of the country, playing a key role in realizing the vision of a developed India by 2047.
2. Platforms such as Swayam Prabha and MOOCs have been supporting Digital learning and innovative methods of education. It features 200 channels that deliver over 13,000 content modules across a diverse range of subjects, available for telecast in 31 different languages, strengthening access to education.
3. The Pradhan Mantri Kaushal Vikas Yojana (PMKVY) launched in 2015 aimed to enhance the employability of youth through skill development, responding to the industrial demand and incentivizing skill certification. Further, the scheme has undergone several iterations since its inception, each building on the successes and lessons of the previous versions. PMKVY 2.0, was introduced in 2016 with expanded sector coverage and alignment with other national initiatives like ‘Make in India’ and ‘Digital India’. This version also focused on scaling the geographical reach and better aligning training with market needs.

PMKVY 3.0, launched in 2020, continues to evolve, aiming to create an ecosystem that enables youth to make informed choices about skilling avenues. It emphasizes a learner-centric approach, greater state and district-level planning, and extensive use of digital technologies for training delivery. Now, PMKVY 4.0 is being rolled out nationwide. This strategy shift under PMKVY is tailoring training programs to industry demands and youth aspirations, boosting the urban economy and also building a competent workforce to manage urban infrastructure and services.

4. Skill India Digital Hub (SIDH), launched in September 2023, aims to create a unified digital ecosystem for skill development, employment, and entrepreneurship. SIDH combines the objectives of the Skill India and Digital India initiatives, providing a comprehensive platform for users to access industry-relevant skill courses, job opportunities, and entrepreneurship support. The platform, designed with a mobile-first approach, has registered about 88 lakh users, seen 9.59 lakh mobile app downloads, and enrolled 7.63 lakh candidates in online courses as of June 2024. SIDH offers 752 online courses with over 7.37 lakh minutes of digital content available. It also integrates with MSMEs to facilitate access to entrepreneurship schemes, supporting the career and business aspirations of learners and job seekers.

Supplementary legislation, like the Nirbhaya Act, led to the creation of the Nirbhaya Fund, which was used to fund projects to improve women’s safety. One of these projects was the Safe City project, to create a safe, secure and empowering environment for women in public places, to enable them to pursue all opportunities without the threat of gender-based violence and/or harassment. It, further, aims to prevent and curb all forms of crimes against women and girl children in public places by providing safer urban infrastructure and efficient access to law enforcement agencies. Further, Non-governmental organizations (NGOs) such as Pravah in India also engage youth in decision-making processes. By involving young people in educational programs focused on social issues, Pravah helps youth develop the skills and awareness needed to contribute to urban development.

Other initiatives like Prajatantra and SAAR also aimed to expose and sensitise the youth towards urban systems and governance. Prajatantra, an annual initiative of the

Praja Foundation, aims to nurture the next generation of civic leaders by connecting them with experts to explore how Indian cities are governed. It focused on enabling students to raise and discuss governance-related urban issues. SAAR (Smart cities and Academia Towards Action & Research) is a collaborative initiative by the Ministry of Housing and Urban Affairs, NIUA, and 15 premier architecture and planning institutes in India. The students are involved in documenting and disseminating best practices from 75 innovative urban projects under the Smart Cities Mission, making them aware of urban systems, challenges and opportunities.

There are also successful Global initiatives like DeclarACTION by UN-Habitat, where young individuals tackle urban challenges, shaping policies at all levels. Through Youth 2030 Cities Forums, these youths develop strategies aligned with the SDGs and the New Urban Agenda, advocating for sustainable and inclusive growth. This collective commitment functions as a roadmap, emphasizing collaboration between youths and stakeholders to drive meaningful urban development, ensuring young voices are pivotal in crafting the future of cities globally.

Innovations in Youth Engagement:

Innovative digital platforms are increasingly becoming tools for engaging youth in urban design and governance. UN-Habitat's Block by Block initiative, which uses the popular game Mine craft, is a successful example that allows young people to participate in urban design by visualizing their ideas in a virtual environment. Such interactive and engaging approach enhances youth participation in creating more accessible and inclusive urban areas . In India also, the Paryavaran Saathi Chatbot, launched by the Delhi Government, allow youth to participate in environmental initiatives, such as fighting pollution. Gamification elements, including rewards and competitions, make civic participation more appealing to young people.

Youth-led Ideas are Pushing the Boundaries and platforms like Youth Co - lab were initiated in 2019 through a partnership between UNDP India and the Atal Innovation Mission, NITI Aayog. This platform has conducted five national theme-specific challenges focused on youth social innovation and entrepreneurship. It engages participants through a variety of methods including panels, workshops, dialogues, and webinars, fostering a dynamic community of young social entrepreneurs. Through its long-term incubation program, Youth Co lab supports the development and expansion of innovative solutions and selects entrepreneurs to represent India at regional

summits. One noteworthy solution that aligns with urban development is SaralX, aimed at enhancing access and opportunities for people with disabilities. SaralX utilizes artificial intelligence to transform digital content into accessible formats to individuals with disabilities, promoting inclusivity in urban spaces.

Challenges in Youth engagement and participation:

The youth of India represents the largest portion of the workforce, require steady access to urban facilities and services like education and aspires a steady and decent quality of life. Despite several initiatives, youth worldwide, particularly in India, encounter substantial obstacles that impede their involvement in decision-making processes. Below are many significant issues they face:

Educational Disparities: Youth form the backbone of a nation's economy, and their capacity to secure decent employment is critically dependent on the quality of education and training they receive. In many developing and underdeveloped nations, a stark disparity in employment based on educational levels is evident, with only 4.33% of illiterate workers securing regular employment compared to 46.29% of graduates. This highlights the essential role of education in accessing stable and formal employment opportunities.

Unemployment and Skill Mismatch: The World Youth Report indicates that 142 million youth are out of school, 171 million are unemployed, and millions more are in precarious or informal work. The International Labour Organization (ILO) highlighted in 2020 that the global youth population is increasing, yet many young people are disproportionately employed in the informal sector, and many are not only unemployed but also unemployable due to a stark disparity in employment based on educational levels. This gap highlights the need for demand-based skill development programs tailored to meet the evolving needs of modern industries and employment.

Socio-economic Exclusion: Many youths, particularly from economically marginalized communities, face systemic barriers that prevent their full participation in society. Existing policies often fail to effectively address or leverage the unique perspectives and skills of these young populations, leading to continued exclusion and under representation.

Digital Divide: A considerable challenge in youth engagement is the digital divide, which limits access to technology due to economic constraints, further

exacerbating the gap in participation in decision-making processes. This divide is critical as much of today's advocacy and civic engagement occurs on digital platforms.

Educational Deficits and Unawareness: A lack of educational opportunities leads to a deficit in understanding rights, opportunities, and mechanisms for engagement, which is essential for effective participation in advocacy and policy-making processes.

Inadequate Networks and Channels for Participation: The absence of robust networks and channels through which youth can express their views or mobilize for causes significantly hinders their ability to play an active role in societal development. Further, there is a dearth of institutional mechanisms and channels to enable participation of youth in urban governance and development.

Ineffective Information Dissemination: Information regarding engagement opportunities, participation mechanisms, and advocacy is not adequately disseminated, particularly among youth in remote or marginalized areas, limiting their potential to influence changes that affect their lives.

These challenges necessitate comprehensive strategies to ensure that all youth, regardless of their socio-economic background, have the opportunity to contribute effectively to societal growth and benefit equitably from development initiatives.

Wayforward

As we face growing urbanization and the accompanying challenges, the solution to engaging youth effectively is embedded within the challenges themselves. If the demographic dividend is effectively harnessed, it can be profoundly impactful for economic growth. Consequently, it is imperative to understand young dynamics and their preferences to shape our initiatives that will create an environment in which youth can spearhead the development of our country. The 7-C approach provides a structured blueprint to address these challenges.

Comprehend: To effectively engage with young people, it is important first to understand how they communicate, behave, and interact with their surroundings. Given that most young individuals are proficient with digital technologies, it is vital to grasp their preferences for digital engagement. Employing methods such as surveys, focus groups, and targeted research will provide insights into their communication habits and needs. It is particularly important to comprehend the challenges faced by youth from disadvantaged or

marginalized communities. This understanding will enable the creation of inclusive and effective engagement strategies. Additionally, conducting thorough research on how these youth utilize digital tools and interact with public services will further enhance the design of these strategies, ensuring they cater effectively to the needs of marginalized groups.

Co-creation: Engaging young individuals in the collaborative design and development of policies and services alongside governments and various stakeholders can substantially address intricate societal challenges. This participatory approach leverages the skills, networks, and potential of youth, facilitating the development of innovative solutions for urban issues. Co-creation boosts trust and satisfaction with governmental initiatives and employs digital crowd sourcing tools, like Geographic Information Systems (GIS)-based mapping, to aggregate public insights and data effectively. To augment youth participation in decision-making and public service implementation, public institutions should implement policies that acknowledge varied challenges and fully leverage the capabilities of digital technologies. A comprehensive strategy integrating individual, organizational, institutional, and societal dimensions is vital for establishing a supportive environment for youth engagement.

Collaborate: Active collaboration with diverse stakeholders including youth organizations, private sector companies, and academic institutions to enhance urban, social, and community development. This cooperative approach should involve organizing events like hackathons and creativity workshops encouraging innovative solutions for community challenges. Supporting youth-led initiatives is also essential, as they drive innovation, create jobs, and empower young people to take significant roles in shaping their communities and advancing urban development.

Capacity: Training and education programs for young people to develop the skills and capacities to harness digital technologies, especially in collaboration with the private sector and academia, are needed. This will equip more young people with the skills needed for digital participation and enhance employment and other socioeconomic opportunities essential for their empowerment toward active participation in public governance.

Connect: Many young people are considered "digital natives" due to their early experiences with technology. As digital technologies have become the primary communication channels for youth, To engage young people effectively, content must be readily accessible and

customized to their proficiency with digital technology, delivered in an engaging and innovative format via popular social media platforms. It is imperative to build communication channels that disseminate information regarding government policies and facilitate active engagement in policy consultations and decision-making processes. Facilitating possibilities for co-designing policies guarantees the inclusion of their opinions, expanding their role in governance. Utilizing e-participation tools facilitates broader and more effective engagement, transforming youth into essential stakeholders in the policymaking process.

Champion: Governments must champion youth-led innovations and initiatives by recognizing and supporting their contributions. This includes providing mentorship, recognition, and financial support for youth-driven urban solutions, encouraging broader youth participation and inspiring others to contribute. Establishing institutional arrangements, such as a designated agency or task force, can foster the harnessing of frontier technologies and innovation for youth participation. Such arrangements facilitate inter-agency coordination with a whole-of-government approach and support youth startups, enhancing the role of young people in technological advancement and increasing job creation for youth.

Conclusion

It is projected that developing countries like India with a large young population will experience significant growth. This systematic method ensures that youth to actively shape their communities and the larger urban landscape. India's journey toward empowering its youth through participation in opportunities demonstrates its commitment to inclusive growth and development. By embracing the digital revolution and improving participation and engagement the country can unlock the potential of its youth, paving the way for a brighter and more prosperous tomorrow.

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Proceeding of the 27th Annual Convention and National Seminar on “Challenges & Innovations in Urban Planning & Development” Inaugural Session



Dignitaries on Dais

The 27th Annual Convention and National Seminar on the theme “Challenges & Innovations in Urban Planning & Development” was held in Ashoka Hall, Manekshaw Centre, Dhaula Kuan, New Delhi, on July 13th-14th, 2024. The Inaugural Function was held on July 13, 2024 which was attended by several high ranking dignitaries. Lt. Gen. Arvind Walia, AVSM, E-in-C, IHQ of MoD (Army) was the Chief Guest of the Inaugural Function, who was joined by Shri K.K. Kapila, Past President, IBC (Keynote Speaker); Maj. Gen. Ashok Kumar, AVSM, President IBC; Shri O.P. Goel, Founder President, IBC; Shri V. S. Verma, Imm. Past President, IBC, Sh. V.R. Bansal, Hony. Secretary and Sh. I.S. Sidhu, Executive Director, IBC.

The Chief Guest and the dignitaries on the dais were welcomed with Potted sapling which is a symbol of life, green and sustainability.



Lt. Gen. Arvind Walia, AVSM, E-in-C, IHQ of MoD (Army)
Lighting the Ceremonial Lamp



Lt. Gen. Arvind Walia, AVSM, E-in-C, IHQ of MoD (Army)
being welcomed by President

The Inaugural Function started with lighting of ceremonial lamp by the Chief Guest, Lt. Gen. Arvind Walia, AVSM, E-in-C, IHQ of MoD (Army).

The Proceedings started with the welcome address by the President, IBC. In his welcome address, Maj. Gen. Ashok Kumar AVSM President, IBC, thanked the Chief Guest, Lt. Gen. Arvind Walia, AVSM for sparing his valuable time for inaugurating the convention despite his busy schedule. He also thanked all the delegates and participants who had come from across the country to attend the Annual Convention and National Seminar.

Sharing his views, he expressed that he feels honoured to speak today about the Challenges and Innovations in Urban Planning and Development. The topic is not



Maj. Gen. Ashok Kumar AVSM President,
IBC delivering the Welcome Address

only pivotal but profoundly transformative. Therefore, IBC has organized this seminar to find out what are the solutions that we have for us to follow.

He emphasized that urban planning is an art and science of shaping our lives. But today, art is tested by formidable challenges and these challenges are known to each one of us seated here. By 2050, it is said that about 70% of world population will move into the urban places. We must think boldly and act swiftly to prevent our cities from collapsing under their own weight. Challenges are enormous.

India being one of the largest countries in terms of the population density, the challenges for India are much more. Climate has become the topic of the day. Climate change and the activities that are happening because of the catastrophe that humans are responsible for, is going to be a big challenge for which we all need to react today. Our planet is sending clear messages in the form of unprecedented heat waves, devastating flood and severe storms.

We have seen how the heat range is moving away from the normal and how farmers are suffering. There are people who are devoid of water, which is an important source for us to survive. Time has now come to think on these lines and find ways as to how our population can survive in the times to come. There is inequality in the social infrastructure and cities mirror our societies. It is our duty to bridge this divide. Technological disruption is another aspect that we need to keep in mind.

Innovation is our bigger hope. Here in India we want to make smart cities. Unless we believe in Internet of

Things (IOT), Artificial Intelligence (AI), big data, we are not reaching anywhere. Unless we have collective and inclusive growth, we will not reach our aim.

While concluding, he invited the audience to rise to the occasion and shape urban future and for this, keep asking yourself; these three questions; If not us, who; If not now, when; and If not here, where?



Shri O.P. Goel addressing the Gathering

In his address, Shri O.P. Goel, Founder President said that in view of bringing all professionals together, the idea of starting of IBC was conceived.

Shri Goel stressed that IBC is a body setup to promote and encourage the science and practice of conceiving, planning, designing, constructing and maintaining built environment which includes evolving standards, innovative & new materials reviewing & making suggestions to the Government in various improvements and this is achieved by expression of collective ideas of members belonging to all disciplines connected with the built environment. He shared with gathering that IBC has on its roll Administrators, Financiers, Developers, Architects, Civil Engineers, Public Health Engineers, electrical Engineers, Mechanical Engineers, Horticulturists, Builders, Manufacturers of Buildings Materials, Researchers and Teachers etc. The recommendations given by a collegium of all such professionals have acceptability by the Society and the Government.

He expressed his concerns that unplanned urbanization leads to several issues, lack of proper infrastructure, unhygienic living conditions, extreme pressure on existing infrastructure, pollution and many more. He added that there are complex urban challenges which reflect on basic urban amenities such as Water, Sanitation, Sewage, Road & Transportation among others that must be addressed to ensure cities remain vibrant & functional. Major challenges requiring innovative approaches shall be discussed in this Convention.

He expressed his happiness to see the progress of IBC from 1992 when it was conceived to today and congratulated the successive Office Bearers of IBC who have made such a big event possible. He extended his good wishes for the grand success.



Shri V.S. Verma, Imm. Past President, IBC addressing the Gathering

श्री वी.एस. वर्मा पूर्व अध्यक्ष, आई.बी.सी. सभा को संबोधित करते हुए 27वें अधिवेशन के मुख्य अतिथि श्री अरविन्द वालिया, ए.वी.एस.एम.; मेजर जनरल अशोक कुमार, अध्यक्ष, आई.बी.सी.; श्री ओ.पी. गोयल संस्थापक अध्यक्ष; श्री के.के. कपिला, पूर्व अध्यक्ष; श्री वी. आर. बंसल, अवैतनिक सचिव और श्री आई. एस. सिंधु, एकजीक्युटिव डायरेक्टर और मंच पर आसीन सभी महानुभाव जो अपने-अपने क्षेत्रों से अपने अनुभव विशेषज्ञता रखते हैं उन सबका स्वागत किया और उनके भागीदारी के लिए उन्हें हृदय से धन्यवाद दिया।

उन्होंने कहा आज एक चुनौती भरा विषय हमारे सामने है। हम दुनिया कि सबसे बड़ी लोकतांत्रिक देश की आबादी हैं और यहां सबसे तेजी से शहरीकरण हुई है। हमारा देश सबसे पुरानी सभ्यताओं में से एक है और जल्दी ही हम विश्व के सबसे बड़े शहरीकृत देश हो जाएंगे। अगले दो दिनों में बड़े गूढ विषयों पर चर्चा होगी और हर एक विषय विशेष होगा। उन्होंने एक आम आदमी अर्थात् दादा-पोते की दृष्टि से सबके कानों में कुछ बातें गुंजायमान करना चाहा।

सबसे पहला विषय जो मैंने पहले भी कहा था कि भारत का पता गुम हो गया है। उन्होंने इस विषय को उजागर किया कि गूगल के माध्यम से पता ढूँढना एक आम आदमी के लिए संभव नहीं है। उन्होंने इस बात पर जोर दिया कि जिस प्रकार राष्ट्रीय मार्ग व राज्य मार्ग तथा अन्य सड़कों का नम्बरीकरण किया गया है उसी आधार पर हर गाँव-कस्बे का भी नम्बरीकरण होना चाहिए। इससे हर पते को ढूँढना आसान होगा।

दूसरा विषय उन्होंने भूमिगत-सेवाओं पर चर्चा किया। उनका मानना है कि भूमिगत सेवाओं की जानकारी किसी एक संस्था के पास होना चाहिए जैसे विदेशों में है। इस संस्था का काम केवल जानकारी देने तक सीमित हो और उनके पास सभी भूमिगत सेवाओं की जानकारी हो। यह सही है कि भूमिगत जानकारी के

आभाव में आम जनता और सरकारी सेवाओं को लागू करने में काफी कठिनाइयों का सामना करना पड़ता है।

तीसरा विषय पर्यावरण से जुड़ी है। उन्होंने इस ओर ध्यान आकर्षित किया कि ओवरहैड बिजली के तार के कारण पेड़ों की छटाई कर दी जाती है जो पर्यावरण के दृष्टि से ठीक नहीं है। इसके लिए उन्होंने वायरलैस व्यवस्था लाने पर जोर दिया।



Shri K.K. Kapila, Chairman ICT Pvt. Ltd. & Past President, IBC delivering Keynote address

The Keynote address was delivered by Shri K.K. Kapila, Chairman ICT Pvt. Ltd. & Past President, IBC. In his keynote address he mentioned that Urban planning is a multi-disciplinary field which involves design and regulations of use of space within urban area. It encompasses broad range activities aims that improving the quality of life in cities town and other urban centers. The primary goal of urban planning is to create an environment that is sustainable, efficient and conducive to the wellbeing of the inhabitants. Urban planning is both science and art requiring integration of technical expertise, creativity and community engagement. He urged Planner to consider various factors including population growth, economic trends, environmental constraints & social needs to create comprehensive & adaptable plans for urban development and emphasized that with careful planning and innovative approaches, urban areas can become more livable, sustainable, resilient and ultimately enhancing the quality of life for their residents.

He further added that when urban areas expand, we face challenges that require innovative solution. Urban Planning involves several key components like land use planning etc. This aspect focuses on the adaptation of different land uses such as residential, commercial, industrial and recreational areas. Effective land use planning ensures that each area is well connected and functional.

He mentioned that developing efficient transportation networks including roads, public transport, pedestrian

walk etc. an essential for reducing congestion, improving and enhancing humanity within urban areas. Urban planners design, manage and redevelop essential infrastructure such as water supply, sewerage system, electricity and communication networks. These services are crucial for smooth functioning of urban areas.

He added further that environment planning involves green spaces and sustainable practices into urban development to enhance environment quality and mitigate the impact of urbanization. He stressed that Planners should focus on creating vibrant communities with necessary amenities & services and aim to develop economically vibrant areas that provide diverse employment prospects.

He emphasized that Social equality should to ensure that all residents have access to essential services and opportunities and highlighted that it is a critical aspect of urban planning. This involves addressing disparities

in housing, education, health care and other vital areas. He mentioned that modern urban planning emphasize on building cities that can withstand natural disasters in economic crises and should promote energy efficiency, reducing wastage and supporting long term ecological balance.

Integrating residential, commercial and recreational spaces within close flexibility reduces the need for long commutes, promotes workability and creates vibrant diverse communities. This approach fosters social interaction and economic activity. Shri Kapila concluded by mentioning that urban planning faces significant challenges in a rapidly urbanizing world and by harnessing innovation, fostering inclusive & sustainable practices, cities can be created which are livable and vibrant and equitable. He emphatically mentioned is that these collective responsibility of all stakeholders to ensure that urban area should involve in a manner that meet all the needs for present and future generation.

Release of Technical Publications

The Eighth issue of IBC Journal, Preliminary Publication containing 18 technical papers on “Challenges & Innovations in Urban Planning & Development” being presented during

seminar by renowned authors; and Special Edition of Built Environment were released by Lt. Gen. Arvind Walia, AVSM, the Chief Guest of the function.



IBC Journal, Preliminary Publication and Special Issue of Built Environment being released by Lt. Gen. Arvind Walia, AVSM

IBC Life Time Achievement Award - 2023-24

IBC Life Time Achievement Award 2023-24 was awarded to Dr. Mahesh Kumar, Fmr. E-in-C, Haryana PWD and Fmr. Engineering Member, Delhi Development Authority; Shri S.K. Vij, Fmr. Member Engineering, Railway Board; Shri J.C. Singhal, Fmr. Chief Engineer, UP Jal Nigam.



Dr. Mahesh Kumar receiving the Life Time Achievement Award

Dr. Mahesh Kumar: Dr. Mahesh Kumar was born on 30th June, 1960, He did B.Sc (Civil Engineering) from REC, Kurukshetra; M. Tech. from IIT Delhi; LLB from Kurukshetra University and Ph. D from PEC University of Technology, Chandigarh.

From 2004 to 2018, he held senior positions like Chief Engineer (PWD), Chief General Manager in National Highways Authority of India, Engineer in Chief of Haryana Public Works Department (Building and Roads) and Engineering Member, Delhi Development Authority. Since 2018, he is working as President, ICT and is responsible for Contracts, Litigation, Arbitration and Infrastructure projects. At present, he is involved in supervision of Delhi-Mumbai Expressway and Delhi-Amritsar-Katra Expressway. He has vast experience on various models of Contract including Public Private Partnership projects and EPC, etc.

He was the President of IBC during October 2011 to January 2013 and has also been the President of Indian Roads Congress.

Shri S.K. Vij: Shri Satish Kumar Vij was born in New Delhi, on 12th March 1949 and graduated in Civil Engineering with an outstanding academic performance, from Delhi Polytechnic/Delhi College of Engineering (now called Delhi Technological University)

After joining the elite Indian Railway Service of Engineers (IRSE) after short stints in Posts and Telegraph Department and in Engineers India Ltd, he



Shri S.K. Vij receiving the Life Time Achievement Award

got admitted to The Ivy League Institution of USA: Cornell University and completed the Masters Course.

As IRSE officer since 1971, he rose to the highest position of Member Engineering, Railway Board. Besides constructing, maintaining and operating viably the huge infrastructure of Indian Railways, his accomplishment peaked with completion of 107 kms of first Railway line in the Kashmir Valley.

During his stint with Railways, he also completed M.Phil in National Security Strategy, through internationally famous National Defence College.

Sh. S.K. Vij is Past-President of Indian Buildings Congress and continues to contribute to IBC with his technical and administrative acumens.



Shri J.C. Singhal receiving the Life Time Achievement Award

Shri J.C. Singhal : Shri J.C. Singhal is BE (Civil) and ME (Env.), from IIT Roorkee. He served for 39 years in UP Jal Nigam and, retired as Chief Engineer. Post retirement, he has worked as Senior Consultant in GOI on World Bank Projects.

He has been the Chairman, IWWA, Lucknow Centre, and Chaired number of Technical Sessions. He has to his credit a number of technical papers published in leading Journals. He has been a Governing Council member of number of Engg. Institutions. He is also

the Founder President of Institution of Water & Environment.

Shri Singhal is Editor to the book on “Water Pollution & Waste-Water Treatment” published by International Publisher Stadium Press USA. He has been awarded British Council TCTP Award for special course on PHE. Books on ‘Green Quest’, ‘Divine Quest’ & Nature Quest are marvels of his contributions. He is Life Member of Indian Buildings Congress and Permanent Invitee to its Governing Council.

Outstanding Contribution to IBC Award - 2023-24

Outstanding Contribution to IBC Award - 2023-24 was awarded to Shri Hitendra Mehta, Founder, Mehta & Associates LLP, Shri Shobhit Uppal, Deputy Managing Director, Ahluwalia Contracts India Ltd. and Shri Anant Kumar, Fmr. E-in-C, Delhi PWD.



Shri Hitendra Mehta receiving the Outstanding Contribution to IBC Award

Shri Hitendra Mehta : Shri Hitendra Mehta, founder of Mehta and Associates LLP, one of the leading Architectural, Urban Planning and Design consultancy firm of Central India and is in the field of active consultancy for more than 26 years.

A Civil Engineering graduate of 1987, he has acquired vast Experience and knowledge in various aspects of Urban Planning, Architecture, Infrastructure Development, Real Estate Development and Public & Private Partnership endeavours, enabling him to advice the Government and Local Bodies in key Policy level decisions. He has been appointed by the Government of Madhya Pradesh as Board Member in the Governing Board of Shri Govindram Seksaria Institute of Technology and Science (SGSITS), Indore, and Member of Review committee for Indore Development Plan 2021, Bhumi Vikas Niyam 2012 and many such other Committees.

He has been associated with Professional and Technical bodies like Indian Institute of Engineers, Indian Buildings Congress, Indian Geo-Technical Society, Indian Structural Association, Indian Roads Congress, All India Housing Development Association etc. He is presently holding the position of Vice President of IBC.



Shri Shobhit Uppal receiving the Outstanding Contribution to IBC Award

Shri Shobhit Uppal: Shri Shobhit Uppal is the Deputy Managing Director at Ahluwalia Contracts India Ltd., one of India's leading EPC companies, and a Past President of the Indian Building Congress. An Electrical Engineer from the prestigious National Institute of Technology, Kurukshetra, India, he has 37+ years of experience in the construction industry and was honoured by ET Now as one of the most influential leaders in the industry.

During June' 24, Shri Uppal was awarded for “**Excellence in Resilient Built Environment Award**” by Future Opportunities Careers And Ultimate Success (FOCUS) – a leading platform for the mutual benefit of the built environment sector covering all professional critical services of building.

In the labour-intensive construction industry, Shri Uppal in collaboration with the Indian Building Congress has played a pivotal role towards upskilling and all-round upgradation of the workforce by ensuring continuous improvement & setting newer Industry benchmarks. Furthermore, Shri Shobhit Uppal has always been steadfast in adapting & embracing new-age trends & technology for the changing business requirements.

Shri Anant Kumar: Shri Anant Kumar graduated in Civil Engineering from the university of Roorkee, now known as IIT Roorkee. He joined CPWD in 1986 as Asstt. Executive Engineer and rose to the level of Special Director General, CPWD. He superannuated as Engineer-in-Chief, PWD Delhi in June 2023.



Shri Anant Kumar receiving the Outstanding Contribution to IBC Award

He is life member of Indian Buildings Congress, Indian Road Congress and an active member of various IRC Committees. He was Vice President of IBC and regularly delivers lectures in IIM Jammu, CPWD Training Institutes, CBI Training Academics and various other Forums. He was also the president of JICA Alumni Association of India for 4 years.

Shri Anant Kumar has a passion for staying updated with new technologies and best practices of the construction industry. In pursuit of the same, he has visited number of countries like the USA, Norway, Spain, France, Switzerland, Italy, Austria, Philippines, China and Japan for various conference, courses and learning projects on construction and demolition waste management, smart city infrastructure and Capital planning & City Water Supply.

Smt. Satya Goel Memorial Award

IBC has also constituted Smt. Satya Goel Memorial Award which is given every year to Outstanding Woman professionals. Smt. Satya Goel Award – 2023-24 was awarded to Ms. Mitu Mathur.



Ms. Mitu Mathur receiving Smt. Satya Goel Memorial Award

Ms. Mitu Mathur: Ms. Mitu Mathur is an award-winning and accomplished Architect and Urban Designer with extensive experience in designing housing, hospitality,

public, institutional and master planning projects. As the Director of M/s GPM, she has been steering the firm's growth since 2006, exemplifying its collaborative and interdisciplinary approach towards architecture and planning. She has also been featured on Forbes as one of the Top 30 - under 45 Indian architects and designers in 2023.

She leads the Design Research team at M/s GPM, focusing on the evolution and sustainable design of Indian cities. With a vision to promote housing for all, she is leading landmark projects like Netaji Nagar and Sarojini Nagar Redevelopment in Delhi. Additionally, she is heading the development and design of more than 20 Railway Stations pan India, along with the development of several Airports and Integrated Check Posts, contributing to a significant part of M/s GPM's infrastructure development initiative.

Excellence in Built Environment Award

IBC has constituted award for excellence in built environment. Following projects were awarded the Trophies for the year 2023-24. The Trophies were given to the awardees by the Chief Guest, Lt. Gen. Arvind Walia, AVSM.



Trophy to the Project of "Provision of OTM Accn for 1200 Tps at Shankar Vihar on EPC Mode" for Excellence in Built Environment
Shri Abhishek Gupta, IDSE, EE Garrison Engineer (P) East, Delhi Cantt received the Trophy for the Project of "Provision of OTM Accn for 1200 Tps at Shankar Vihar on EPC Mode".



Trophy to the Project of "Procurement, Construction and commissioning for Renovation & Modernization of Milan Mela Complex", Kolkata for Excellence in Built Environment

Shri Praveen Shakya, M/s Ahluwalia Contracts (India) Limited, New Delhi received the Trophy for the Project of “Procurement, Construction and Commissioning for Renovation & Modernization of Milan Mela Complex”, Kolkata.



Trophy to the Project of “Kaushal Bhawan”, New Delhi for Excellence in Built Environment

Shri Abhishek Mohanty, AGM; Shri V.K. Choudhary, Executive Director and Team, NBCC (India) Limited New Delhi received the Trophy for the Project of “Kaushal Bhawan”, New Delhi.



Trophy to the Project of “Construction of Permanent Campus of Indian Institute of Technology Bhilai at Kutelabhata, Durg,” Chhattisgarh Phase-1 (Stage-1) for Excellence in Built Environment

Shri Anurag Kumar, SE, IIT Bhilai Project, CPWD, Durg (Chhattisgarh) received the Trophy for the Project of “Construction of Permanent Campus of Indian Institute of Technology Bhilai at Kutelabhata, Durg, Chhattisgarh Phase-1 (Stage-1)”.



Trophy to the Project of “Surat Diamond Bourse” for excellence in Built Environment

Shri Kushagra Sharma, Epistle Communications LLP, New Delhi received the Trophy for the Project of “Surat Diamond Bourse”.



Trophy to the Project of “Construction of Permanent Campus for the IIT, Dharwad (Phase-1A)” for excellence in Built Environment

Shri B.G. Sangale, M/s B G Shirke Construction Technology Pvt. Limited, Pune received the Trophy for the Project of “Construction of Permanent Campus for the Indian Institute of Technology, Dharwad (Phase-1A)”.



Trophy to the Project of “All India Institute of Medical Sciences, Kalyani, West Bengal” for excellence in Built Environment

Shri Praveen Shakya and Team, M/s Ahluwalia Contracts (India) Limited, New Delhi received the Trophy for the Project of “All India Institute of Medical Sciences, Kalyani”, West Bengal.



Trophy to the Project of “Spl repair to bldg. no.P-25 (Offrs Mess) for Fmn HQ, Morar Cantt under GE”, Gwalior for excellence in Built Environment

Col. Akhil Singh Charak, CWE Jhansi, Brig. Mukherjee, and Shri Narendra Singh, HQ Commander Works Engineers received the Trophy for the Project of “Spl repair to bldg. no.P-25 (Offrs Mess) for Fmn HQ, Morar Cantt under GE”. Gwalior.



**Trophy to the Project of “Waste To Energy (WTE) Campus”,
Jamnagar for excellence in Built Environment**

On behalf of INI Design Studio; Ahmedabad, Ar. Bhargav A. Bhavsar, Architects for the WTE Jamnagar project received the Trophy for the Project of “Waste to Energy (WTE) Campus”, Jamnagar.



**Trophy to the Project of “Fountain Square with Exposition Ground
Mansarovar”, Jaipur for excellence in Built Environment**

Shri Prateek Srivastava, Addl. Chief Engineer-I, Rajasthan Housing Board, Jaipur received the Trophy for the Project of “Fountain Square with Exposition Ground, Mansarovar, Jaipur”.



**Trophy to the Project of “Runway and Allied Infrastructure
at Air Force Station, Deesa, Banaskantha”, Gujarat
for excellence in Built Environment**

Col. Manish Dhaka, VSM, Commander Works Engineer and Maj. Nitesh Kumar, GE (P); Military Engineer Services, Air Force Deesa received the Trophy for the Project of “Runway and Allied Infrastructure at Air Force Station, Deesa, Banaskantha”, Gujarat.



**Trophy to the Project of “Sandy Wavess Beach Resort
(Havloc Beach)” for excellence in Built Environment**

Dr. Ponni M. Concessao and Dr. Oscar Concessao, OCI Architects *Oscar & Ponni*, Chennai received the Trophy for the Project of ‘Sandy Wavess Beach Resort (Havloc Beach).



**Trophy to the Project of “Udhampur Srinagar Baramulla Rail Link
Project” for excellence in Built Environment**

Trophy is awarded to the Secretary to CAO, Northern Railway, Trikuta Nagar, Jammu for the Project of “Udhampur Srinagar Baramulla Rail Link Project”.



**Trophy to the Project of “Development and Beautification of Ratara
Talab and Panch Matha Rewa (Part of Re-densification Scheme)”for
excellence in Built Environment**

Shri Hitendra Mehta, Managing Director, Mehta & Associates LLP Indore received the Trophy for the Project of “Development and Beautification of Ratara Talab and Panch Matha Rewa (Part of Re-densification Scheme)”.

IBC Commendation Certificates for Excellence in Built Environment

IBC has also constituted Commendation Certificate for Excellence in Built Environment. Commendation certificates for Excellence in Built Environment for the year 2023-24 were given to the following recipients:

Provn of KLP (OTM) ACCN for ASC supply Depot in Morar Cantt, Gwalior: Col. Akhil Singh Charak, HQ Commander Works Engineers received the Commendation Certificate for the project.

All India Services Residency, Pratap Nagar, Jaipur: Shri Prateek Srivastava, Addl. Chief Engineer-I, Rajasthan Housing Board, Jaipur received the Commendation Certificate for the project.

Gulshan Dynasty Experience Centre: The representatives of Confluence Consultancy Services received the Commendation Certificate for the project.

UHBVN Head Office Building: Ar. Deependra Prasad, Architects & Planners (DPAP), New Delhi received Commendation Certificate for the project.

Telangana State Secretariat, Hyderabad: Dr. Ponni M Concessao, Dr. Oscar Concessao and the Representative of Shapoorji Pallonji and Company Private Limited, Hyderabad jointly received Commendation Certificate for the project.

Development of Odia University at Satyabadi: Commendation Certificate is presented to the Chief General Manager-II, Odisha Bridge & Construction Corporation Limited, Bhubaneswar for the project.

Provision of Admin cum Training Block & Ancillary Facilities at INS Mandovi, Goa: Shri Prabhat Kumar Singh, IDSE, GE (P) Navy Mandovi, received Commendation Certificate for the project.

Construction of Permanent Campus for IISER at Jangalapalli Village, Yerpedu Mandal, Chittoor District, Tirupati, Andhra Pradesh (Phase-1). **Sub Head:** Shri G. Hanumantharaya, EE & SM (C), IISERPD, CPWD Tirupati along with his team received Commendation Certificate for the project.

Multistoried Modern Command Hospital Complex and associated accommodation for Northern Command at Udampur: Col. Rajesh Gupta, ACE HQ Chief Engineer, Udampur Zone, MES received Commendation Certificate for the project.

Multilevel Parking Building at Zone -I M.P. Nagar, Bhopal: Shri Hitendra Mehta, Managing

Director, Mehta & Associates LLP, Indore received Commendation Certificate for the project.

Red Bricks: Shri O.P. Mishra, Secretary to Ministry of Health, Home, Water, Power, Industries, Irrigation & Flood Control and Urban Development received Commendation Certificate for the project.



Lt. Gen. Arvind Walia, AVSM, E-in-C, IHQ of MoD (Army)
Chief Guest, addressing the Gathering

Lt. Gen. Arvind Walia, AVSM while delivering his address, mentioned that “Challenges & Innovations in Urban Planning & Development” the topic of the day is a very vast subject. He added that urbanisation has been one of the most transformative process of present times and has led to significant changes in environment where humans live, work and interact with the surrounding world. He added that with more people moving to the cities there is an unequal regional development and this has led to the growing need for sustainable urban development that balances economic growth, environmental protection and social development. He added that India is now most populous country in the world and accounts for 11% of total global urban population and housing about 460 million people in close to 8000 cities and towns in India. As such figures are significant both because of demographic weight and the dynamics of urbanisation which is involved in India.

Lt. Gen. Walia, AVSM, drew attention to the fact that by 2050, India is expected to grow its urban occupancy to approximately 900 million people and this will be nearly 56% of India’s population and by the time India gets closer to the developed Nation’s urbanisation figure of 70% of the overall population, there would many challenges. He mentioned some of the challenges that have been brought out and emphasised the importance to reiterate those challenges which are required to be tackled.

While outlining the challenges of sustainable growth over development, he mentioned that growth needs to be sustainable as the cities are struggling with the pollution of air, water and waste management. He stressed that Urban density management is an important issue and needs to ensure that the benefits of the housing and other urban amenities are available to all residents equally & therefore, social equity is also very important aspect. He highlighted the issue of the sustainable development to make our cities, safe, inclusive, resilient and sustainable has firmly placed the urbanisation at the forefront of National Development Policy Discourse. Govt. of India has already taken very targeted intervention in this regard through its scheme of Atal Mission for Rejuvenation of Urban Transportation (AMRUT).

He highlighted that Government has already recognised these challenges and formulated & implemented the schemes of Pradhan Mantri Awas Yojana, Swatch Bharat Mission, Smart Cities Mission. He further added that there are few more factors which still needs to be addressed, such as land use rotation.

Next factor he mentioned was that of urban design and highlighted the role of Mr. Le Cobusier, a visionary planner, in development of Chandigarh. We need to have breathing spaces and character to the city. We all want beautiful cities but we compromise well planned spaces and building bye laws due to lack of spaces. So, this is also needed to be factored in.

He stressed that policy innovations are also very important at the highest level which should include the zonal reforms, inclusive housing, regulations and incentives for green building. He added that Planners, Architects Engineers have a long way to go in designing and planning urban spaces which are sustainable and livable. He expressed his confidence that the discussion and outcome from this Seminar will undoubtedly contribute to shaping the policies.



Memento being presented to Chief Guest, Lt. Gen. Arvind Walia, AVSM, E-in-C, IHQ of MoD (Army)

To mark the occasion, Memento was presented to the Chief Guest, Lt. Gen. Arvind Walia, AVSM, E-in-C, IHQ of MoD (Army) as well as to the Keynote Speaker, Shri K.K. Kapila,



Memento being presented to Keynote Speaker, Shri K.K. Kapila, Past President, IBC & Chairman, ICT Pvt. Ltd

Past President, IBC & Chairman, ICT Pvt. Ltd by Maj. Gen. Ahsok Kumar AVSM, President, IBC.



Shri V.R. Bansal, Hony. Secretary, IBC presenting the Vote of Thanks

Shri V.R. Bansal, Hony. Secretary, IBC presented the Vote of Thanks. He thanked Lt. Gen. Arvind Walai, AVSM, for consenting to grace this function and sparing his valuable time. He heartfully thanked Shri K.K. Kapila, Past President, IBC for consenting to be Keynote Speaker of this event and setting tone of deliberations to come. He thanked Founder President, Shri O.P. Geol who has been the source of inspiration for the IBC fraternity and guides to work for fulfilment of the goal of the organisation.

He thanked Maj. Gen. Ashok Kumar AVSM who has been the pillar of strength for him to work whole heartedly for making the arrangement for this function and guiding from time to time to make the event a success. He thanked Shri Vijay Singh Verma, Immediate Past President for his contribution and support.

He also thanked Shri I.S. Sidhu who has recently joined IBC as Executive Director, but worked tirelessly for making the arrangement of this function a grand success. At the end he profoundly thanked gathering of professionals and luminaries who attended the Inaugural function in large number as much as the Hall was full and few Delegates were waiting outside. He expressed his heartiest thanks to all for making this event a grand success.

The Inaugural Session concluded with National Anthem.



View of Audience

Gallery of Awardees for Excellence in Built Environment, receiving Commendation Certificate



Col. Akhil Singh Charak, HQ Commander Works Engineers receiving the Commendation Certificate



Shri Prateek Srivastava, Addl. Chief Engineer-I, Rajasthan Housing Board, Jaipur receiving the Commendation Certificate



The representatives of Confluence Consultancy Services received the Commendation Certificate



Ar. Deependra Prashad, Architects & Planners (DPAP), New Delhi received Commendation Certificate



Dr. Ponni M. Concessao, Dr. Oscar Concessao and the Representative of Shapoorji Pallonji and Company Private Limited, Hyderabad jointly receiving Commendation Certificate



Commendation Certificate is presented to the Chief General Manager-II, Odisha Bridge & Construction Corporation Limited, Bhubaneswar



Shri Prabhat Kumar Singh, IDSE, GE (P) Navy Mandovi, received Commendation Certificate.



Shri G. Hanumantharaya, EE & SM (C), IISERPD, CPWD Tirupati along with his team received Commendation Certificate.



Col. Rajesh Gupta, ACE HQ Chief Engineer, Udampur Zone, MES received Commendation Certificate.



Shri Hitendra Mehta, Managing Director, Mehta & Associates LLP, Indore received Commendation Certificate



Shri O.P. Mishra, Secretary to Ministry of Health, Home, Water, Power, Industries, Irrigation & Flood Control and Urban Development received Commendation Certificate

Technical Session I



Dr. O.P. Tripathi, Chairman & Shri Ram Babu Prasad
Co-Chairman on dais

General

The Technical Session I was held on July 13, 2024 at Ashoka Hall, Manekshaw Centre, Dhaula Kuan New Delhi. The session was chaired by Dr. O.P. Tripathi, Fmr. E-in-C, Delhi PWD. Shri Ram Babu Prasad, Planning Engineer (N) BCD, Patna was the Co-Chairman of the Session. Both the Chairman and the Co-Chairman of the session were welcomed by presenting Potted plant by Shri V.R. Bansal, Fmr. CE, MCD & Hony. Secy., IBC.

Opening remarks of the Chairman

The Chairman of the session, in his opening remarks, while welcoming the authors, delegates and other invitees present in the session, underlined the importance of the theme of the Seminar.

Paper Presented

First presentation was presented by Shri C.K. Varma, Fmr. Spl. DG, CPWD on the topic “**Transforming Urban Infrastructure: Digital Twin Technology**”. In his paper the author presented the concept of Digital Twin technology, which is going to build the future urban eco-system by systematically planning the complex urban spaces and implementing the virtual built environment on ground. Digitalization, especially digital twin being precise virtual copies of systems, is revolutionizing every field of human activity with ease and finesse. He mentioned that with the advancement of information technologies, especially the emergence of New Information Technologies such as Internet of Things, Cloud Computing, Big Data Analytics, and Artificial Intelligence, Digitalization Process is greatly accelerating and through the convergence of the physical virtual worlds, digitalization is poised to

become one of the main drivers of innovation in urban planning & development.

He further added that digital twin technology will help in building a better world despite complex and dynamic urban environment and will prove to be game changer for creating zero emission and seamless infrastructure with clean water, affordable energy, right facilities and services across the country. While summarizing, he mentioned that digital twins enhance our ability to understand, learn, and reason from changes in physical twins and their environment and would help the planners, developers & facility builder to visualize processes, monitor the performance and eliminate problems before they occur and as such would help them from being reactive to predictive which is the bottom line of this technology.

Next presentation was presented by Shri Yeturi Pramod Kumar Reddy, Ph.D Scholar, Department of Civil Engineering, Mahindra University, Hyderabad who made a presentation on the topic ‘**Smart Construction: Advancement through Precast and 3D Printed Wall Panels**’.

In his presentation, he has brought out the continuously evolving construction sector that requires innovative new materials and technology. Innovative technologies and materials require strength, speed, and sustainability. The best material and technology for the future are lightweight modular sandwich panels, that can match the demands of quality, sustainability, and speedy construction simultaneously integration of 3D Printing technology in the precast construction enhances the speed, cost-efficiency and design flexibility. He added that the performance of 3D-printed wall panels is influenced by the geometry, insulation strategies, materials and mix designs and these variables play an essential role in determining the overall performance of 3D-printed walls.

Summing Up

The session was summed up by Dr. O.P. Tripathi, Chairman. He briefly gave a gist of the papers presented in the session and highlighted the importance of “Challenges & Innovations in Urban Planning & Development”.

He mentioned that it was a informative Technical Session and had interesting presentations, presenting new ideas. He further mentioned that there are many challenges but such Technical Sessions bring out those Challenges as well as their solutions. He thanked the audience for patience hearing to all presentations.

Felicitation Gallery - Technical Session I

The authors as well as the Chairman and Co-chairman of the Session were felicitated by presenting mementos by Maj. Gen. Ashok Kumar, AVSM.



Memento being presented to Shri C.K. Varma



Memento being presented to Shri Yeturi Pramod Kumar Reddy



Memento being presented to Dr. O.P. Tripathi, Chairman



Memento being presented to Shri Ram Babu Prasad, Co-chairman

Technical Session II



Shri Salil R. Shrivastava, Chairman & Shri Pradeep Garg, Co-Chairman on dais

General

The Technical Session II was held in the 2nd half on July 13, 2024 at Ashoka Hall, Manekshaw Centre, Dhaulta Kuan, New Delhi. The session was chaired by Shri Salil

R. Shrivastava, Vice President, IBC & E-in-C, Govt. of Chhattisgarh as Chairman. Shri Pradeep Garg, SE, CPWD was the Co-Chairman of the Session. At the outset, the Chairman and the Co-Chairman of the session were welcomed by presenting Potted plant to them.

Opening remarks of the Chairman

The Chairman Shri Salil R. Shrivastava in his opening remarks welcomed the authors, delegates and other invitees present in the session. He underlined the importance of the theme of the Seminar.

Papers Presented

First presentation was presented by Shri Saurabh Jindal, Assistant Professor, National Institute of Construction Management and Research (NICMAR) Hyderabad, Telangana. He made his presentation on the topic 'Urban Planning for Mitigating Climate Change'. In his presentation, he explained the consequences of climate change, a pressing global issue of the twenty-first century. He stressed that Climate change is putting

more and more strain on the built environment and the supporting infrastructures that sustain these populations, including buildings, water, energy, sanitation, and transportation. He emphasized that these systems will find it difficult to sustain a high standard of living for city residents if the current situation persists and many urban areas worldwide, especially Indian cities, are still not planned for climate change. He stressed that comprehensive and effective policies are essential to mitigate and increase cities' resilience towards Climate change. He added that main emphasis of this Study is to investigate the relationship between current and future climate risk, mitigation strategies, and urban planning tools for climate action in Cities. He in his presentation, further reviewed the climate risks to cities with approaches to increase urban resilience and concludes with policy recommendations.

Next presentation was jointly presented by Shri Hitendra Mehta, CMD Mehta & Associates LLP, Indore, M.P. and Ms. Ayusha Batham, Urban Planner at Mehta & Associates LLP, Indore, M.P. on the topic '**Challenges and Innovations in Urban Planning for Climate Resilience**'. In their presentation they informed that Climate change is a major challenge for ecosystems, economies, and communities. The paper explored the complex relationship between Climate Change and Resilience & innovative strategies to enhance adaptability and reduce adverse effects.

They mentioned that Climate changes poses a serious threat to urban areas and emphasized for a strategic rethinking of resilience frameworks to ensure the sustainable development of cities and to examine the complex link between climate change and urban resilience, with a focus on the challenges faced by Cities and the Transformative Strategies required to adapt.

They further suggested that sustainable urban planning and design are crucial for urban resilience. Integrating green spaces, implementing climate-responsive infrastructure, and adopting eco-friendly technologies contribute to cities' adaptive capacity while promoting environmental sustainability. They discussed successful case studies illustrating the positive outcomes of such integrated approaches in enhancing urban resilience and emphasizing innovative technologies, community engagement & integrated policies. They highlighted proactive steps to improve urban planning, developing resilient infrastructure, establishing early warning systems, and fostering inclusive urban development.

In conclusion, the paper emphasizes on integrating climate change into urban planning and resilient

initiatives. Through the adoption of sustainable practices, community engagement & technology utilization, cities can proactively adapt the changing climate, securing a resilient and sustainable urban future.

Next presentation was presented by Ms. V. Shobhna, Director MES. She made her presentation on the topic '**Towards Climate Conscious Urban Development – Risks, Adaptation, Mitigation, and Urban Resilience**'. In her presentation, she mentioned that India is on the threshold of undertaking one of the largest urban transition and gaining credence in international discussions promoting urbanization-oriented climate outcomes in national development contexts. She mentioned that Global City Network C40 – a united front of cities to confront climate change – has six member cities from India – Bengaluru, Chennai, Delhi NCR, Kolkata, Jaipur and Mumbai and also added that Global Covenant of Mayors for Climate and Energy (GCoM) – an international alliance of local governments supporting voluntary action to combat climate change has Ahmedabad, Bhavnagar, Junagarh, Gandhinagar, Gangtok, Gwalior, Jamnagar, Kochi, Nagpur, Panaji, Rajkot, Shimla, Surat and Vadodara as partner cities. Pune, Surat, Chennai and Jaipur are part of 100 Resilient Cities – a forum looking to build urban resilience across the globe.

She further added that climate-conscious agenda is finally entrenched through national initiatives and various cities have responded with clear action plans, tactical understanding of interacting climate and development priorities across governance levels will condition future trajectory of climate responses. Air, water, transport and energy addressed, decisions about urban form, lock-in effects of energy and carbon consumption of which will manifest long-term, are still open. Prioritizing policies concerning urban sprawl and strategic densification will consolidate the path to resilient urban development.

Next presentation was presented by Ms. Usha Batra, Former SDG, CPWD. She made her presentation on the topic '**Climate Change and Resilience**'. In her presentation, she mentioned that Climate change is a threat to human well-being and planetary health. She pointed out that there is a rapidly closing window of opportunity to secure a liveable and sustainable future for all and human activities, principally through emissions of greenhouse gases. Global greenhouse gas emissions have continued to increase, with unequal historical and ongoing contributions arising from

unsustainable energy use, land use and land-use change, lifestyles, patterns of consumption and production across regions, both between and within countries, and among individuals.

She pointed out that human-caused climate change is already affecting weather and climate extremes in every region across the globe. Climate resilient development integrates adaptation and mitigation to advance sustainable development for all.

Future climate change is projected to increase the severity of impacts across natural and human systems. Limiting warming to 1.5 and 2°C involves rapid, deep and in most cases immediate greenhouse gas emission reductions. Some future changes are unavoidable and/or irreversible but can be limited by deep, rapid, and sustained global greenhouse gas emissions reduction. Delayed mitigation and adaptation action would lock in high-emissions infrastructure, raise risks of stranded assets and cost-escalation, reduce feasibility, and increase losses and damages.

Next presentation was presented by Dr. K.M. Soni, Former ADG, CPWD. He made his presentation on the topic '**Climate Change and Drainage Challenge in Urban Planning & Development**'. In his presentation, he mentioned that drainage has become a critical issue in urban planning and infrastructure globally but particularly in India, due to local continuous weather and climate change. He emphasized that urban planners have to include drainage system as a main

issue in urban planning and also stressed that Urban planners and engineers involved in urban planning & implementation of services need to take immediate traditional & innovative measures to prevent stagnation of water due to rains.

He further stressed that Buildings and other infrastructure like roads, bridges, culverts are designed considering past flood levels but these need to be designed considering past and estimated futuristic flood levels.

He also mentioned that as submergence is likely to happen in low lying areas of coastal regions due to changed weather conditions and climate change, immediate plan needs to be prepared for prevention of flooding in coastal areas and thus, there is a need of integrated approach for urban planning considering critical conditions.

Summing up

The proceedings of Session was summed up by Shri Salil R. Shrivastava, the Chairman of the session. He mentioned that it was an excellent session wherein all presentators explained about the impact of climate change and suggested the mitigation ways so that future generations do not suffer. He expressed his concerns about climate change, while specifically pointing out that how development is effecting the Nation and how its after-effects are coming back to the society. He enjoined upon architects, engineers and builders to put best efforts to help in protecting environment.

Musical-Evening

A Musical Programme in the evening was held on 13th July, 2024 in Manekshaw Centre, Dhaula Kuan, New Delhi which was enjoyed by large number of participants of the Convention. The Musical programme was followed by Dinner.



View of Musical Programme

Felicitation Gallery - Technical Session II

Maj. Gen. Ashok Kumar AVSM & President, IBC, felicitated the authors, the Chairman and the Co-Chairman of the Session by presenting mementos.



Memento being presented to Sh. Hitendra Mehta & Ms. Ayusha Batham



Memento being presented to Ms. V. Shobhana



Memento being presented to Ms. Usha Batra



Memento being presented to Dr. K.M. Soni



Memento being presented to Shri Salil R. Shrivastava, Chairman



Memento being presented to Shri Pradeep Garg, Co-Chairman

Technical Session III



Shri Shailendra Sharma, Chairman & Ms. Kanika Bansal, Co-Chairman on dais

General

The Technical Session III was held on July 14, 2024 at Ashoka Hall, Manekshaw Centre, Dhaula Kuan New Delhi. The session was chaired by Shri Shailendra Sharma, Fmr. Director General, CPWD as Chairman. Ms. Kanika Bansal, Lead, Universal Design & Inclusion, NIUA, New Delhi was the Co-Chairman of the Session. The Chairman and the Co-Chairman of the session were welcomed by presenting potted plant to them.

Opening remarks of the Chairman

The Chairman, Shri Shailendra Sharma, Fmr. Director General, CPWD in his opening remarks welcomed the authors, delegates and other invitees present in the session. He also underlined the importance of the theme of the Seminar.

Papers Presented

First presentation was jointly presented by Dr. Pawan Kumar, Town and Country Planning Organization, New Delhi and Ms P. Jyotika, Student of Indira Gandhi Delhi Technical University for Women, Kashmere Gate, Delhi on the topic '**Public Transport During Health Crisis: Challenges and Innovations**'. In their presentation, they mentioned that Public Transport and Public Health are associated with each other through well beings of the commuters and the city residents. Various modes of Transport affect physical and mental health of the commuters due to longer waiting time, commuting time, transfer time at interchange points, convenience, fatigue, etc. They further added that in health crisis situation like severe acute respiratory syndrome during corona virus in 2019, the operations of urban transport became challenge for both operators

and Transport Authorities and also affected the operations & managements of urban transport. It was further stressed that concerned agencies should opt for various measures of hygiene, cleaning, sanitary protocol, contagions issues, etc. as well as crisis management of the health policy in operations and management of public transport.

Second presentation was presented by Ms. Devibhuti, M. Arch Scholar, National Institute of Technology, Hamirpur, Himachal Pradesh on the topic ‘**Impact of Urban Morphology on the Main Market Street of Bilaspur (H.P.)**’. In her presentation, she mentioned that the swift growth of urban and peri-urban areas induces undesired variations in climate, impacting building energy loads of heating and cooling. She further mentioned that built environment in an urban setting impacts the meso-climate, which depends on multiple urban planning factors. Urban street canyons affect the outdoor and indoor thermal comfort of the users mainly depending on their street geometry, orientation, aspect ratio, etc.

Through her presentation, an attempt was made to investigate the issues pertaining to user comfort in the Main market street of Bilaspur Town Himachal Pradesh. The survey conducted highlighted the problems in outdoor thermal comfort amongst users influenced by the urban morphological characteristics of the street canyon. It also discussed the historical events and geographical constraints that led to the present scenario of this market street. The survey results brought out the user perception in reference to thermal comfort and the paper suggested measures for mitigation of user thermal discomfort.

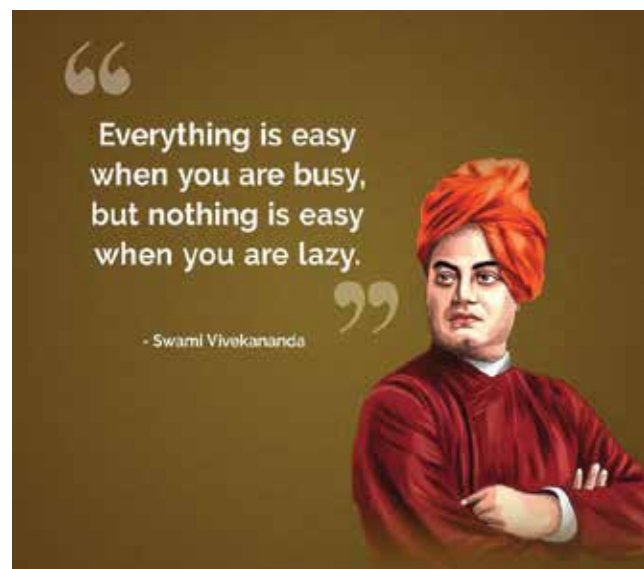
Third and the last paper on the topic ‘**Seismic Retrofitting of Historical Buildings using Structural Control**’ was presented by Dr. B.P. Suneja, Former Professor, Civil Engineering Department, Rajasthan Technical University, Kota, Rajasthan. In his presentation, he informed that the monuments that represent an architectural and/or cultural signature of an era are popularly known as Historical Buildings and that they give a sense of pride and belongingness by connecting us with our ancestors. He emphasized for preservation of these buildings of historic importance, for future generations. Seismic retrofitting of historical buildings is considered as a major challenge to civil engineers and other professionals. He highlighted that retrofitting strategy for such buildings should be able to preserve their unique feature along with the seismic strengthening and further added that

seismic retrofitting strategies can be categorized as Demand based (i.e. earthquake input) and Capacity based (i.e. seismic resistance of building). Most of the conventional techniques of seismic strengthening are based on the capacity enhancement of the structure whereas the structural control methods are based on the reduction in demand. The demand based methods have become much attractive for historical buildings as they require least visible interventions hence, the intrinsic worth of the monuments can be preserved. Through his paper, the author attempted to address the important seismic characteristics of historical buildings and various technical issues involved in retrofitting of these buildings. Also, it describes the effectiveness of using control methods, particularly the base isolation techniques for such important structures. Finally, the challenges in the selection of an effective isolation strategy for retrofitting of historical building have also been addressed.

Summing up

The session was summed up by Shri Shailendra Sharma, Chairman. He briefly gave a gist of all papers presented in the session and highlighted the importance of “Challenges & Innovations in Urban Planning & Development”.

He thanked all the authors for presenting very illuminating and illustrative presentation in Technical Session III. Audience during the session heard the presentation attentively. At the end there were questions raised from the audience that was answered by the Authors.



Felicitation Gallery - Technical Session III

As a token of appreciation for this presentation, mementos were presented to the authors by the Chairman and Co-chairman of the Technical Session III.



Memento being presented to
Dr. Pawan Kumar & P. Jyotika



Memento being presented to
Ms. Devibhuti



Memento being presented to
Dr. B.P. Suneja

Maj. Gen. Ashok Kumar, AVSM and President IBC felicitated the Chairman and Co-chairman by presenting mementos to them.



Memento being presented to Shri Shailendra Sharma, Chairman



Memento being presented to Ms. Kanika Bansal, Co-Chairman

Obituaries



Shri P.C. Sharma, Fmr. Executive Engineer, MDA expired on August 16, 2024. Shri Sharma was Life Member of Indian Buildings Congress and Permanent Invitee of Governing Council, IBC. Indian Buildings Congress deeply mourns his sad demise and shares bereavement with the members of his family. May God grant peace to the departed soul.



Shri Krishna Kant, Fmr. UN Expert & CE, CPWD expired on August 25, 2024. Shri Krishna Kant was Life Member and Executive Committee Members of Indian Buildings Congress. He was associated with the Indian Buildings Congress and had actively participated in its activities. Indian Buildings Congress deeply mourns his sad demise and shares bereavement with the members of his family. May God grant peace to the departed soul.

Author's Gallery- Technical Sessions



C.K. Varma



Pramod Kumar Reddy



Saurabh Jindal



Hitendra Mehta & Ayusha Batham



V. Shobhana



Usha Batra



Dr. K.M. Soni



Dr. Pawan Kumar & P. Jyotika



Devibhuti



Dr. B.P. Suneja

Valedictory Session – July 14, 2024



Dignitaries on Dais

The Valedictory Function of 27th Annual Convention and National Seminar on “Challenges & Innovations in Urban Planning & Development” was held on July 14, in Ashoka Hall, Manekshaw Centre, Dhaula Kuan, New Delhi. Shri Chanchal Kumar, IAS, Secretary, Ministry of Development of North Eastern Region, Govt. of India was the Chief Guest of the Valedictory Function. Shri Sanjay Pant, DDG, BIS and Maj. Gen. Raju Singh DG (W), IHQ, of MoD (Army) graced the occasion as Guest of Honour. They were joined on the dais by Major General Ashok Kumar, AVSM, President, IBC; Shri O.P. Goel, Founder President, IBC; Shri V. S. Verma, Imm. Past President, IBC; Shri V.R. Bansal, Hony. Secretary, IBC and Shri I.S. Sidhu, Executive Director, IBC & Chief Rapporteur. The Chief Guest and Guest of Honour were welcomed with potted plant which is a symbol of green as well as symbol of life.



Maj. Gen. Ashok Kumar, AVSM, President, IBC delivering the Welcome Address

The Valedictory function started with the Welcome Address by Major General Ashok Kumar, President, IBC.

At the outset he welcomed Shri Chanchal Kumar, IAS, Secretary, Ministry of Development of North Eastern Region, Govt. of India; Shri Sanjay Pant, DDG, BIS; Maj. Gen. Raju Singh, Director General (W), IHQ, of MoD (Army) and other dignitaries on Dais.

He expressed his eagerness to hear the insights and the developments which are taking place in this vital region of Country from Chief Guest Shri Chanchal Kumar. He thanked Shri Sanjay Pant for sparing his valuable time.

While welcoming Maj. Gen. Raju Singh, Director General (W), MES he mentioned that Maj. Gen. Raju Singh is responsible for creating the infrastructure across the length and breadth of the country and intervention being made to overcome this that the Delegates would like to hear about the challenges faced.



Chief Guest Shri Chanchal Kumar, IAS, Secretary, Ministry of Development of North Eastern Region, Govt. of India being welcomed

He emphatically mentioned the need to join hands together to move forward and make bridges with concrete to bridge gap between the human behaviour and collaboration. He stressed to keep pace and move together for brighter and prosperous India and urged. The participants to take a vow that we shall and we will perform, whatever methods that we can, to make India future Challenges ready and to compete with the super power that we talk about.



श्री वी.एस. वर्मा, भूतपूर्व अध्यक्ष, आई.बी.सी. संबोधित करते हुए

श्री वी.एस. वर्मा भूतपूर्व अध्यक्ष, आई.बी.सी. सभा को संबोधन करते हुए कहा कि आई.बी.सी. को आई.आर.सी. के तर्ज पर भवन निर्माण के क्षेत्र में स्वयं को स्थापित करना चाहिए। उन्होंने विचार व्यक्त किया कि आई.बी.सी. को देश में उत्पन्न परिस्थितियों जैसे शहर की ड्रेनेज व फ्लडींग जैसे विषयों पर भी काम करना चाहिए। आने वाले समय में भारत एक ग्रामीण भारत के स्थान पर शहरी भारत के रूप में जाना जाएगा।



Shri O.P. Geol addressing the Gathering

Shri O.P. Geol, Founder President, IBC in his address mentioned that the two days Annual Convention of the IBC is another milestone in the short life span of this august body. The topic of 27th Annual Convention & National Seminar on “Challenges & Innovations in Urban Planning & Development” was discussed through a number of papers and presentations. The recommendations thereof shall be presented by the Convener, Technical Committee.

He congratulated the outgoing President, the Executive Committee and the Governing Council members for painstaking work done successfully, during the year. He hoped that the next Office Bearers will emulate and keep up the image of IBC, rather enhance it and take it to the zenith.

IBC Best Paper Awards

The S.P. Jakhanwal Best Paper Award for paper published in IBC Journal on “EPC Contracts in Building Industry”, released during 26th Annual Convention and National Seminar held on June 10-11, 2023 at New Delhi was given to Shri Rajeev Singhal, Chief Engineer, CPWD for his paper on “Engineering, Procurement and Construction (EPC) Contracts in Building & Road Infrastructure Industry”.

IBC Awards for Best paper presented during 26th Annual Convention and National Seminar on “Net Zero 2070 and Built Environment” held on June 10-11, 2023 at New Delhi were also given. The IBC Medal for Best Paper was awards to Dr. Ponni M. Concessao & Dr. Oscar G. Concessaro, Architects, OCI Architects, Chennai for their Paper on “Climate – Responsive Architecture: The Future”.

IBC Commendation Certificates for Best Paper were presented to Shri Snehal Patel for his paper on “Eco Homes : A Sustainable Solution for Modern Living” and Shri Jit Kumar Gupta for his paper on “Strategies and Options for Making Building Zero Energy”, however both the authors could not be present to collect their award.

Gallery of Best Paper Awardees

Awardees for the best papers presented and published in IBC Journal which was released during 26th Annual Convention and National Seminar on “Net Zero 2070 and Built Environment” held on June 10-11, 2023 at New Delhi



Shri Rajeev Singhal receiving S.P. Jakhanwal Best Paper Award



Dr. Ponni M. Concessao & Dr. Oscar G. Concessaro receiving IBC Medal

IBC Presidential Awards

IBC Presidential Awards for 2023-24 was presented by the Chief Guest, Shri Chanchal Kumar, IAS Secretary, Ministry of DONER, Govt. of India to Shri V.R. Bansal, Fmr. Chief Engineer, MCD & Honorary Secretary, IBC, for displaying exceptional Managing Skills and leadership quality in organising the 27th Annual Convention and National Seminar in a short span of time.



Shri V.R. Bansal receiving IBC Presidential Award by Shri Chanchal Kumar IAS Secretary, Ministry of DONER, GoI

Commendation Certificate to IBC Staff

On the culmination of a successful 27th Annual Convention & National Seminar, Commendation Certificates were awarded to IBC Staff by Shri Chanchal Kumar IAS, Secretary, Ministry of DONER, Govt. of India for their dedicated and hard work in organising the event.

Gallery of IBC Staff



Shri I.S. Sidhu, Executive Director



Shri N.K. Singh, Dy. Secy. (Tech.)



Ms. Sunita Joshi, Admin Officer



Shri I.S. Sidhu, Executive Director



Shri Onkar Singh, Computer Operator



Shri Vidhya Bhushan, Messenger



Shri Ravinder Singh Rawat, MTS



Shri Dharmendar Singh, MTS



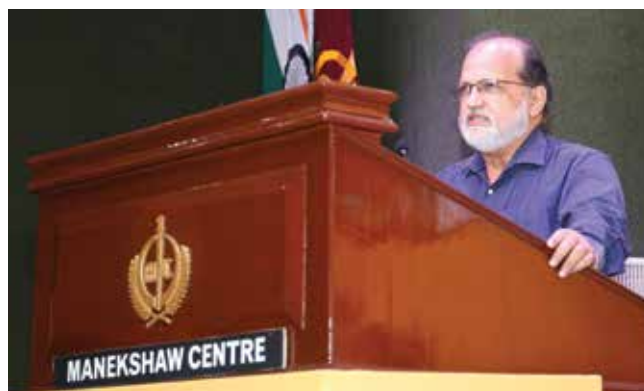
Shri Rajesh Kumar, MTS



Maj. Gen. Raju Singh, Director General (W), IHQ of MoD (Army) addressing the Gathering

Maj. Gen. Raju Singh, DG (W) IHQ of MoD (Army), Guest of Honour, while addressing the gathering said that IBC is tasked with organizing annual conferences and seminars to advance India's development, innovation, collaboration and sustainable practices. He further added that IBC felicitates exchange of knowledge among industry leaders and this aligns with the Govt. of India's visionary initiative of Vikshit Bharat 2047 which aims to transform our nation into a developed county by year 2047. He stressed that every Stakeholders has to play a critical role in this transformation from policy formulation to planning to implementing innovative projects that addresses challenges of our environment and highlighted that collectively responsibility is required to drive the progress needed to realise this vision and pave the way for prosperous and developed India. He emphasized to integrate eco-friendly practices, energy efficient technologies and green building standards into all infra projects so that a environment can be created which is not only liveable but also contributes to the overall well being of the Society and planet. He mentioned that the current phase is the phase of technolgoy transformation and this is where all efforts have to be put in most of the projects with new technology & vast pace constructin through various modes like EPC and further added that MES enhances efficiency, quality and sustainability in its infrastructure development.

At the end, he shared that while he was a student at IIT, Chennai and later while taking on various civil engineering projects, he learnt three Es which can bring the nation to a developed nation. These three Es are Engineering, Enforcement, and Economy. If the first two things are implemented there is no doubt that the economy of the Nation will move ahead.



Shri Sanjay Pant, DDG, BIS addressing the Gathering

Shri Sanjay Pant, DDG, BIS in his address mentioned that in development of BIS standard, IBC is contributing in one way or the other and highlighted that BIS is a national standard body. BIS represents India in the International Standardisation Forum like ISO, International Organisation for Standardisation, International electro-technical Commission, International Tele Communication Union and contribute in development of International Standards. He outlined the initiatives of BIS in area of Civil Engineering and Building Construction, where more than 1850 Indian Standards on building materials have been developed and these building materials standard encompasses wide variety of alternatives.

He further outlined the initiatives of BIS in development of Standards for different types of bricks like common burnt building bricks, perforated building bricks, hollow building bricks, flyash bricks, flyash cement bricks, concrete block, and hollow concrete blocks mentioned each one of these have separate IS Codes. He informed various types of alternatives of bricks being used in green buildings and their respective IS Codes. He talked about use of flyash, waste stone, copper slag, steel slag, iron slag, construction demolition waste (C&D waste) etc. The use of all these alternatives have been added in IS Codes.

He also touched upon National Buildings Code 1970, that has been revised many times and at present National Building Code 2016 is the latest version.

He stated that presently there is no separate Town and Country planning code of India hence BIS has decided to bring out a separate publication on Town and Country planning code of India and also keeping in view that there is a huge opportunity, challenges and innovation in urban planning and development today. He added that the recommendations which will emerge out from deliberation of two days seminar, BIS would like to utilize it in development of the proposed special publication in Town and Country planning.



Shri Chanchal Kumar, IAS Secretary, Ministry of Development of North Eastern Region, Govt. of India delivering Valedictory Address

श्री चंचल कुमार, आइ.ए.एस., सचिव, उत्तर पूर्वी क्षेत्र, विकास मंत्रालय भारत सरकार ने आई.बी.सी. के 27वें वार्षिक अधिवेशन के समापन सत्र में बुलाए जाने पर प्रसन्नता व्यक्त की। उन्होंने कहा कि इससे पहले कि वे शहरी नियोजन चुनौतियों के बारे में बात करे उनसे अपेक्षा की गई है कि उत्तर पूर्व की क्या चुनौतियाँ हैं उसके बारे में बताए।

उत्तर पूर्व राज्यों के चुनौतियों के बारे में, उन्होंने संक्षिप्त रूप में बताया कि उसमें आठ राज्य हैं जिसमें सिक्किम भी सम्मिलित है। उत्तर पूर्वी क्षेत्र विकास मंत्रालय का कार्य है कि इन आठ राज्यों में भारत सरकार की जितनी भी योजनाएँ होती हैं उन्हें संचालित करने की एक प्रणाली होनी चाहिए। लगभग 55 मंत्रालय हैं जिनके सकल बजट का 10 प्रतिशत खर्चा उत्तर पूर्वी क्षेत्र में ही करना है। उत्तर पूर्वी विकास मंत्रालय का काम है कि यह निगरानी करे कि हर मंत्रालय द्वारा यह खर्च किया जा रहा है या नहीं और अगर नहीं तो क्या दिक्कत है। क्या नियम में कोई गलती है या संचार में कोई कमी है इन सभी राज्यों से बात करके हमें उन क्षेत्रों की समस्याओं को सुलझाना है इस साल लगभग इन 55 मंत्रालयों का एक लाख दो हजार सात सौ उनसठ करोड़ रुपये के सार्वजनिक निवेश हुए हैं। पिछले साल यह खर्च करीब 83 हजार करोड़ था। अगर पिछले 10 साल का खाता देखे तो प्रधानमंत्री जी ने कहा है कि एक्ट पौलिसी के तहत हमें अष्टलक्ष्मी के रूप में जो यह आठ राज्य हैं इनके विकास को और गति देना चाहिए। पिछले दस साल का बजट देखे तो 10 प्रतिशत का बजट हमें 5 लाख 15 हजार करोड़ खर्च करना चाहिए था और अभी देखे तो 5 लाख 22 हजार करोड़ खर्च किये हैं जो 101.43 प्रतिशत है। उत्तर पूर्व की जो आबादी है वह पूरे जनसंख्या कि 4 प्रतिशत से कम है। क्षेत्रफल करीब 8 प्रतिशत से कम है जीडीपी विकास दर, राष्ट्रीय विकास दर से अच्छा है। विकास दर पिछले दस सालों में राष्ट्रीय औसत से बेहतर है। क्योंकि उत्तर पूर्व में सार्वजनिक निवेश ज्यादा हो रहा है। इसके कारण आर्थिक गतिविधि हो रही है। उत्तर पूर्व

में सार्वजनिक निवेश ज्यादा हो रही है। उत्तर पूर्व की project execution करने कि क्षमता बढ़ रही है, हमारा लक्ष्य यह है कि हम उनकी मदद करे कि वे आगे बढ़ सके।

जनता की बात सुनना सर्वोपरि होता है। जब हम शहरी नियोजन करते हैं तो जनता को सुनना चाहिए और खुला संवाद करना चाहिए। हमारी योजनाएं काफी अच्छी हो सकती हैं अगर हम इन योजनाओं को सही ढंग से उपयोग में लाए। उन्होंने विश्वास जताया कि आने वाले समय में हमारी भूमिका बढ़ेगी और इन चुनौतियों का सक्षम तरीके से सामना कर पाएंगे।

Recommendations



Shri I.S. Sidhu, Chief Rapporteur presenting the Recommendations

Shri I.S. Sidhu, Executive Director, IBC and Chief Rapporteur briefed the gathering about the important issues brought out by the learned presenters in the Technical Sessions on “Challenges & Innovations in Urban Planning & Development” and presented the Recommendations of the Seminar. The recommendations are as under:

By 2047, India is aspiring to be the world's third largest economy with a GDP of \$36 trillion. It would add about 400 million urban populations to its existing 432 million. For this rapid trajectory of urbanization, the major challenges are to interface the economic and ecological eco-system and accelerating inclusive development, resilient cities and infrastructure. As such the following recommendations have to emerged from 2 day's deliberations.

1. Evolving a new paradigm of urban planning and development which is integrated, inclusive & innovative, climate & disaster resilient and thus emphasize on reducing greenhouse gas

emissions, increasing the share of renewable energy, improving energy efficiency, innovative technologies to combat climate change.

2. Machine Learning (ML), Deep Learning, block chain, GIS, GPS Digital Twins, etc. are disrupting the urban processes by smart planning and systems. New forms of transport, services and urban planning are evolved, which are characterized by online exchange of information, interactions, dynamic networks and floating nodes.
3. Digital twin technology would help to visualize processes, monitor the performance and eliminate problems before they occur. This is the bottom line of the new technology and will be game changer.
4. The paradigm of development has to synthesize with its humane and social aspects, protecting the rights of the poor and provide them with housing with the basic services.
5. The basis of sustainable development is the mindful production, utilization, and consumption. A low carbon lifestyle is a cluster of habits, embedded in the social behaviour & psychology that promotes the conservation of natural resources and minimize generation of emissions, wastes and pollution. This requires a change in social norms based on the principles of organicity, non-accumulation (aparigraha), minimalism and slowing down.
6. As envisaged by the smart cities Mission and Gati Shakti Master Plan, urban development should be based on :-
 - Area based strategies at the local level
 - Efficient and transparent urban governance
 - Monitoring of the service delivery through ICT Applications
 - Whole of Govt. platform breaking the silos of departmentalization.
 - Building an integrated Command and Control Centre (ICCC), coordinate multiple principal functions, traffic transportation, environmental monitoring weather and disaster risk reduction.
7. The urban resilience encompasses the capacity of cities to transform, emphasizing environmental sustainability, social equity, economic stability, and effective governance. Strategies such as Transit -Oriented Development, mixed land and planning, non-motorized transport, urban green infrastructure, climate responsive planning and sustainable public transport contribute to building resilient cities.
8. Urban Planning for climate change is an interdisciplinary which includes mitigating techniques, such as carbon-neutral development and adaptation measures, nature-based solutions for managing future urban expansion without putting more people at risk from repercussions of climate change.
9. Air, water, transport & energy decisions about urban form, lock in effects of energy & carbon consumption and strategic densification will consolidate the path to resilient urban development.
10. It is important that the cities are planned, developed and governed by promoting cities to be compact to achieve the goal of Making Cities and Communities - Safe, Resilient Inclusive and Sustainable.
11. Promote smart and sustainable public transport which includes car pooling, non-motorized transport option, mixed land use, compact and integrated urban development.
12. The health crisis emphasizes upon building resilience in public transport system, with modification in space design and corridor planning of roads, bus stands depots, metro terminals, interchange hubs etc.

The urban transport is connected with public health, climate change, road safety, pollution, etc. The emergencies and long term well being should be part and parcel of transport policy.
13. Urban flooding is a serious issue which needs to be considered at national level. The bearing capacity and settlement analysis should be undertaken so that the structures do not fail and the bridges are designed considering HFL futuristic rains, and lakes ponds, and baolies should be integral part of drainage system.
14. Introduction of new construction technology will bring cost-effective systems, better environment, enhance building marketability, reduced liability, improved health and productivity. As demonstrated by Light House Projects undertaken under the Pradhan Mantri Awas Yojana (urban) more than 10.3 million houses have been built with speed, scale and economy.

The approach of prefabricated building system is essential to achieve speed, quality, and economy of construction.

Lightweight modular sandwich panels and 3D Printing technology can enhance the speed, cost-efficiency and design flexibility. The 3D-printing wall panels integrate the geometry, insulation strategies, materials and designs which play an essential role in their performance.

15. For seismic retrofitting of buildings, base isolation

is suggested which is done at the foundation level. This leads to the reduction in seismic forces and avoids major disaster and need for reconstruction while restoring a building.

16. A basic step for a sustainable and efficient waste management is waste segregation, which cannot be achieved without public participation. Indore city is an example where coordination between the local authority and residents made it India's cleanest city.

IBC Mementoes presented to Chief Guest & Guest of Honour

To mark the occasion, IBC Memento was presented to the Chief Guest, Shri Chanchal Kumar, IAS Secretary, Ministry of DONER, Govt. of India; Shri Sanjay Pant, DDG, BIS and Maj. Gen. Raju Singh, Director General (W), IHQ, MoD (Army) Guest of Honour by President of IBC.



IBC Memento presented to Shri Chanchal Kumar IAS, Secretary, Ministry of DONER, GoI.



IBC Memento presented to Shri Sanjay Pant, DDG, BIS



IBC Memento presented to Maj. Gen. Raju Singh, Director General (W), MoD (Army)



Shri V.R. Bansal, Honorary Secretary, IBC proposing Vote of Thanks

दो दिन के कार्यक्रम के पश्चात 27वें वार्षिक अधिवेशन के विदाई सत्र में श्री वी.आर.बंसल, अवैतनिक सचिव, आई.बी.सी. ने धन्यवाद प्रस्ताव रखते हुए सर्व प्रथम श्री चंचल कुमार सचिव, उत्तर पूर्वी क्षेत्र विकास मंत्रालय, भारत सरकार जिन्होंने अपने व्यस्त कार्यक्रम से समय निकाल कर यहां पधारे और पूरे सत्र में उपस्थित रहे उनका धन्यवाद किया।

उन्होंने श्री संजय पंत, डीडीजी, बीआईएस को धन्यवाद देते हुए कहा कि वे अपने व्यस्त कार्यक्रम होते हुए भी समय निकाल कर यहां आए। श्री पंत जी ने स्टैंडर्ड के बारे में विस्तार से बताया।

उन्होंने मेजर जनरल राजू सिंह जी का भी धन्यवाद किया जिन्होंने अपना कीमती समय निकाल कर यहां पधारे और पूरे सेमिनार में उपस्थित रहे। उन्होंने भी अपने भाषण में जो बातें कही वो भी अमल करने योग्य हैं।

उन्होंने सभी गणमान्य व्यक्तियों को जिन्होंने चेयरमेन, को-चेयरमेन की व्यवस्था संभाली, ऑर्गनाइजर, को-ऑर्गनाइजर और स्पॉन्सर को भी धन्यवाद दिया जिन्होंने एग्जीविशन और समिनार को सेट-अप करने में सहयोग दिया।

अंत में उन्होंने सभी लोगों को धन्यवाद देते हुए आभार व्यक्त किया कि सब लोग छुट्टी वाले दिन भी यहां आकर उपस्थित हुए और पूरे सेमिनार में भाग लिया।

Valedictory Session concluded by National Anthem.

5th Executive Committee Meeting of IBC

The following important decisions were taken in the 5th meeting of the Executive Committee for 2023-2024 held on 12th July 2024.

1. After clarification from Shri V.S. Verma, Past President, IBC, a subsequent deliberation the minutes were approved with the modification in item no. 06 that the “the matter shall be proceeded with as per the decision of the 5th EC meeting 2022-23 held on 03.03.2023”.
2. Arrears of Institutional Members opting to convert to Life Membership shall be waived off.
3. EC decided to drop the following Committees
 - i) Impact of RERA on the Construction Industry
 - ii) Model Agreement between Buyer and seller / Builder/Developer for Residential Properties.
 - iii) High Rise Buildings- an approach towards planning & Architectural Design & Construction of High-Rise Buildings.
4. EC approved the Audited Accounts of IBC for F.Y. 2022-2023
5. EC approved the Annual Report of IBC for 2023-24.

105th Governing Council Meeting



105th Governing Council Meeting in Progress

The 105th meeting of Governing Council of IBC was held on July 12, 2024 in Conference Hall of IBC, Sector-6, R.K. Puram, New Delhi. About 46 Governing Council Members including permanent and Special Invitees were present. The following important decisions were arrived at during the Council Meeting.

- The minutes of 103rd & 104th Governing Council meeting were confirmed unanimously.
- GC desired that the matter regarding publication of documents to be pursued with right earnest.
- GC approved the proposal regarding realization of subscription of Institutional members in arrears including waiver of arrears for Institutional Members opting for life membership.
- GC ratified the enrolment of 286 applications for Individual membership (240 life members and 46 ordinary members) & 6 institutional members enrolled after 103rd GC.
- GC unanimously approved the Audited Accounts of IBC for 2022-23.
- GC unanimously approved the Annual Report of IBC for 2023-24.

Achievement of IBC Members: Shri K.K. Kapila, Past President, IBC



Shri K.K. Kapila, Past President, IBC, President Emeritus, International Road Federation (IRF) addressing in U.K. Parliament House

It is a proud moment for IBC that one of the Past Presidents of IBC Shri K.K. Kapila addressed a Session on “Intelligent Transport System UK empowering Transport Technology” in United Kingdom Parliament House and met the newly elected U.K. Parliamentarians. In his address, he said that Intelligent Transportation System (ITS) is a globally proven system to optimize the utilization of existing transport infrastructure and improve transportation systems in terms of efficiency, quality, comfort and safety.

27th Annual General Meeting



27th Annual General Meeting in Progress

27th Annual General Meeting was held on July 13, 2024 in Taber Hall, Manekshaw Centre, Dhaula Kuan New Delhi. Besides the normal business, the following members of IBC were elected/nominated to serve on Governing Council for the year 2024-25, under various clauses of IBC Rules.

9.1.1. Designated Members-

- | | | |
|----------|--|--|
| 9.1.1.1 | Rajesh Kumar Kaushal | Director General |
| 9.1.1.2 | Lt. General Arvind Walia, AVSM | Engineer-in-Chief, IHQ of MoD |
| 9.1.1.3 | Shri Anil Kumar Khandelwal | Member Infrastructure |
| 9.1.1.4 | Shri Sanjay Kulshrestha | CMD, HUDCO |
| 9.1.1.5 | Shri Subhashish Panda, IAS | Vice- Chairman, DDA |
| 9.1.1.6 | Prof. R. Pradeep Kumar | Director, CBRI |
| 9.1.1.7 | Shri O.P. Goel | Founder President & Former DG (W), CPWD |
| 9.1.1.8 | Past President of IBC (Last 3 years) | |
| | (i) Shri Pradeep Mittal | Consultant & Advisor, Proprietor, H.K. Consultant |
| | (ii) Shri Vijay Singh Verma | Director (Tech), MPSTDC & Fmr. E-in-C, MP PWD |
| | (iii) Maj. Gen. Ashok Kumar, AVSM | DGW (Retd), IHQ of MoD |
| 9.1.1.9 | Immediate Past Secretary, IBC (Last 3 years) | |
| | (i) Shri H.P. Gupta | Consultant, Hitech Engineering Consultants |
| | (ii) Shri V.R. Bansal, | Fmr. CE, MCD |
| | (iii) Shri Rajeev Kumar Gupta | Fmr. CE, CPWD |
| 9.1.1.10 | Chairmen of Local Chapters of IBC which have more than 100 Members | |
| | (i) Chairman, IBC Bihar Chapter | Shri Sudhansu Shekhar Rai, E-in-C, BCD |
| | (ii) Chairman, IBC Chhattisgarh Chapter | Shri Salil R. Shrivastava, E-in-C, Naya Raipur Development Authority |
| | (iii) Chairman, IBC Gujarat Chapter | Shri Mahendra Pal, Fmr. CE, MES |
| | (iv) Chairman, IBC Jharkhand Chapter | Shri Lalit Kumar Tibrewal, Fmr. CGM, JSBCCM |
| | (v) Chairman, IBC Rajasthan State Chapter | Shri C.L. Verma, Fmr CE & Addl. Secy, PWD |
| | (vi) Chairman, IBC Tamil Naidu | Shri Kalyana Sundram, SE, Tamil Naidu PWD |
| | (vii) Chairman, IBC Kota Chapter | Shri Suresh Kumar Bairwa, Fmr. ADG, PWD Rajasthan |
| | (viii) Chairman, IBC MP Chapter | Shri G.P. Mehra, Fmr. E-in-C (Bldg.) MP PWD |

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|-------------------------------------|--|
| (ix) Chairman, IBC Odisha Chapter | Shri Jibanananda Nayak, CE (Bldgs), Odisha PWD |
| (x) Chairman, IBC Telangana Chapter | Shri I. Ganapathi Reddy, E-in-C (R&B) Bldg |
| (xi) Chairman, IBC West Bengal | B.K. Dam, Former Chief Engineer, PWD |
| (xii) Chairman, IBC Tripura Chapter | Shri M.S. Roy, Former Chief Engineer, ONGC |
| 9.1.1.11 Heads of Pillars | Shri K. P. Mahadevaswamy CMD, NBCC(India) Ltd. |

9.1.2.1 Representative of Nominated Members

A Representative each of Ministry of Urban Development & Rural Development ;

- | | |
|---|--|
| (i) Ministry of Housing & Urban Affairs | DG, CPWD to represent MoHUA as well. |
| (ii) Ministry of Rural Development | Shri Shakti Kant Singh
Director, Deptt. Rural Development |

9.1.2.2 Representatives of participating Administration from States & Union Territories

- | | |
|-----------------------|---|
| (i) Bihar | Shri Santosh Kumar, CE (South), BCD |
| (ii) Chandigarh | Shri C.B. Ojha, CE, UT of Chandigarh. |
| (iii) Delhi | Shri Sunil K. Shrivastava, CE (Health), Delhi PWD |
| (iv) Haryana | Shri A.K. Dahiya, E-in-C, Haryana PWD |
| (v) Himachal Pradesh | Shri Suresh Kapoor, CE, National Highway |
| (vi) Karnataka | Shri Pradeep Mitra Manjunath, CE, Karnataka PWD |
| (vii) Kerala | Smt. Beena L., CE (Bldg. & Admin) KPWD |
| (viii) Madhya Pradesh | Shri A.R. Singh, Chief Engineer, MP PWD |
| (ix) Maharashtra | Shri Sanjay D. Dashpute, Secy. (W) PWD, Mumbai |
| (x) Meghalaya | Shri B.W. Phira, CE (Standard) PWD (Roads) |
| (xi) Mizoram | Shri Hrangthanga Zote, CE (Bldg. & Other Deptt.) |
| (xii) Nagaland | Shri Hozheto Shikhu, CE, Nagaland PWD |
| (xiii) Odisha | Shri P.K. Pradhan, CE, Works Deptt., Odisha |
| (xiv) Tamil Nadu | Shri K.P. Sathyamurthy, E-in-C, PWD Chennai |
| (xv) Telangana | Shri I. Ganapathi Reddy, E-in-C R&B Deptt. |
| (xvi) Tripura | Shri Rajib Debbarma, TES Grade-I, Chief Engineer |
| (xvii) Uttarakhand | Shri Om Prakash, CE-I, Uttarakhand PWD |

9.1.2.3 Representative of

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|---|--|
| (i) Building Materials & Technology Promotion Council (BMPTC) | Dr. Shailesh Kumar Agarwal, Executive Director |
|---|--|

9.1.2.4 Representative of

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|--------------------------------------|---|
| (i) Institution of Engineers (India) | Shri M. Nagaraj, FIE Consulting Engineer |
| (ii) Institute of Town Planners | Shri S. Rajesh Patel, Council Member ITPI |

9.1.2.8 Addl. Representative of Founder members

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|--------------------------|--------------------------------|
| (i) E-in-C's Branch, IHQ | Maj. Gen. Raju Singh |
| (ii) CBRI | Dr. Ajay Purushottam Chourasia |

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|--|----------------------|
| 9.1.2.9 Representative of NBCC (India) Limited | Shri Manoj Kumar Das |
|--|----------------------|

Elected Members (under Rules 9.1.3.1 to 9.1.3.10)

- 9.1.3.1 (i) Representatives of State Housing Boards, Institutional Members of IBC

(a) Shri Prateek Srivastava from Rajasthan Housing Board.

- 9.1.3.1 (ii) Representatives of Development Authorities, Institutional Members of IBC

(a) Shri Salil Shrivastava from Naya Raipur Development Authority.

- 9.1.3.1 (iii) Representative of Private Organizations, Institutional Members of IBC
(a) Shri Hitendra Mehta, CMD from Mehta & Associates, Bhopal
- 9.1.3.7 (iv) Representatives of Consulting Engineers
(a) Shri P.S. Chadha and (b) Shri Vasu Dev Chhabra
- 9.1.3.8 (v) Representatives of Public Health, Electrical and Mechanical Engineers
(a) Shri R. N. Arora, from Public Health Engineering
(b) Shri Sudhir Kumar from Electrical Engineering
(c) Lt. Col Onkar C. Bhandurje from Mechanical Engineering
- 9.1.3.9 (vi) Representative of Town Planners
(a) Ar. Purushottam P. Doijode
- 9.1.3.10 (vii) Ordinary members of IBC and representatives of Institutional Members of IBC from respective States:-
- | | |
|--|--|
| <p>1. Andhra Pradesh
(i) Shri Mendu Chakrapani</p> <p>2. Arunachal Pradesh
(i) Dr. Toli Basar</p> <p>3. Bihar
(i) Shri Kashyap Kumar Gupta
(ii) Shri Ram Sagar Prasad</p> <p>4. Chhattisgarh
(i) Shri Rajesh B. Thakare
(ii) Dr. Debashish Sanyal</p> <p>5. Delhi
(i) Shri Sanjeev Bansal
(ii) Shri P.K. Jain
(iii) Shri Ashok Kumar Gautam</p> <p>6. Haryana
(i) Shri Balbir Singh Sheokhand
(ii) Shri Satbir Singh Puwar</p> <p>7. Himachal Pradesh
(i) Shri Nitin Bansal</p> <p>8. Jammu & Kashmir
(i) Shri Irfan Shafi Parry</p> <p>9. Karnataka
(i) Shri K.L. Mohan Rao</p> | <p>10. Maharashtra
(i) Shri Shamu Sahbbrao Tapre
(ii) Shri Kishan Rao M. Godbole</p> <p>11. Meghalaya
(i) Shri Donlang Mawroh</p> <p>12. Punjab
(i) Shri Mukul Aggarwal
(ii) Col. Satnam Singh</p> <p>13. Rajasthan
(i) Shri Nagesh Chand Sharma
(ii) Shri Padam Kumar Jain
(iii) Shri Hemant Kumar Sharma</p> <p>14. Telangana
(i) Shri S.V. Satyanarayana
(ii) Shri Satyanarayana Mendu</p> <p>15. Tripura
(i) Shri Chinmay Debnath
(ii) Shri R.K. Majumder</p> <p>16. Uttar Pradesh
(i) Shri Maman Chand Bansal</p> <p>17. Uttarakhand
(i) Shri Ayaz Ahmad</p> <p>18. West Bengal – Two Seats
(i) Shri Kalyanmoy Mitra
(ii) Smt. Nupur Banerjee</p> |
|--|--|

AGM approved the Annual Report of the IBC for the year 2023-24 and Audited Statement of Accounts for the year 2022-23 along with Balance Sheet.

It was decided to continue with the same Auditor, M/s NK Goel and sons, on the same remunerations as in the previous year.

MEET THE NEW EXECUTIVE COMMITTEE OF IBC



Chinmay Debnath, President

Shri Chinmay Debnath, FIE has been elected as the President of Indian Buildings Congress for the session 2024-25 during the 27th Annual Convention of Indian Buildings Congress held on 14th July, 2024 at New Delhi.

Shri Debnath born on 1 March 1961 at Agartala, Tripura. He graduated in Civil Engineering in the year 1983 from Tripura Engineering College, Tripura (Presently NIT Agartala) under Calcutta University. He joined PWD, Tripura in 1984 and superannuated as Superintending Engineer in February 2021. During his service, he was attached to construction works in Roads, Buildings, Drinking Water and Sanitation. He was associated with construction of multistoried building including Medical College and also construction of Water Treatment Plants, Iron Removal Plants, Overhead Reservoirs and was also engaged with planning and design of buildings, roads, bridges in PWD.

Shri Debnath is associated with many organizations and has been an active social activist. He is involved in organizational activity since school days. After his superannuation in 2021, he has attached himself more with activities of professional engineering organizations, namely The Institution of Engineers (India), Indian Buildings Congress (IBC) and Indian Engineers Federation (INDEF).

His long association with Indian Buildings Congress (IBC) (A Professional Organisation connected with built environment) since 1998, when he was enrolled as Life Member. He is the Governing Council Member, IBC since 2002. During 2007-08 and 2008-09, he was the National Executive Committee Member and the National Vice President for the sessions 2019-20, 20-22, 22-23 and 23-24. He had received IBC Outstanding Contribution Award 2009, IBC Presidential Award 2013 and IBC Presidential Award 2022. He was greatly involved in establishment of State / Local Centres of IBC in 16 States and Union Territories, which include

Andaman & Nicobar, Hyderabad, Kolkata, Kerala, Assam, Meghalaya, Sikkim, Manipur, Arunachal Pradesh, Nagaland, Uttarakhand, Odisha, Puducherry, Tamilnadu, Sikkim, Himachal Pradesh. He was the Secretary of IBC, Tripura Centre when it was established in 2005 and subsequently was the Chairman of the Centre also. The National Council Meeting of IBC was held in Agartala in 2007 when he was the Secretary of the Centre. Due to initiation the joint venture programme of IBC, Tripura Centre was organized with various centres of IBC like Assam, Manipur, Mizoram, Nagaland, Arunachal Pradesh, Meghalaya, Sikkim, West Bengal, Tamilnadu.

Shri Chinmay Debnath was President of The Institution of Engineers (India) during the session 2022-23. He was enrolled with the Institution of Engineers (India) in 1986, and got FIE in the year 2013 and has been attached to this century old organization well over three decades. He is involved with Tripura State Centre, IEI since its inception in the year 1989, when it was formed as ad hoc as Agartala Local Centre. He was the Committee Member of Agartala Local Centre during 1993-95 and Joint Honorary Secretary during 1995-97 & 1997-99. During 1999-2001, he was the Honorary Secretary of Agartala Local Centre, which was upgraded to Tripura State Centre in December 2008. During this period, the only SAARC Seminar was organized in Tripura in the year 2000 with participation of representatives from Sri Lanka, Bangladesh, Nepal and India as co-ordinated by FIESCA. During 2013-15, he was the Committee Member of Tripura State Centre; Honorary Secretary of Tripura State Centre during 2015-17. During his tenure, by virtue of organizing large number of technical activities during 2016-17, Tripura State Centre was awarded as Best Centre in C category by IEI. He was elected as the Chairman of Tripura State Centre for the session 2019-22 and has been serving the Council Member of IEI since then. His

other important assignments with IEI during 2021-22 includes, Chairman, Centre's Coordination Committee, Member, BoG, Rural Development Forum; Member, Civil Engineering Division Board; Member, Service Rules and Headquarters Management Committee. During 2021-22, he was a Special Invitee in Asset Management Committee. Shri Debnath has attended number of technical events organized by IEI in India as well as Bangladesh & Nepal and also was involved in organizing Joint Programme with other Centres.

Since 1996, he is a Member of Indian Roads Congress, (IRC), a professional organization of Engineers in Roads Sector. He was National Council Member of IRC during 2009-10 & 2010-11. Since 2005, He is a member of Institution of Public Health Engineers (India) (IPHE). He was National Council Member of IPHE during 2016-18 and now Advisor to IPHE, Agartala Centre during 2022-23. He is associated with Indian Engineers Federation (INDEF) [An apex service federation of Graduate Engineers serving in State (37 State / UT) & Central (8 Central Organisations Govt. Service & Undertakings)] since 1987. He was Secretary General of INDEF (undivided Eastern Region) during 2002-2004; Secretary General, INDEF National Body during 2005-2009; President, INDEF (North-Eastern Region) during 2010-2012; Vice President, INDEF National Body during 2016-18; Chairman, INDEF

National Body during 2018-2022 and Secretary General of Senior Engineers Forum of INDEF National Body during 2022-24. Since joining in service in 1984, he was the member of State Engineers Association, Tripura (Constituent body of INDEF in Tripura State); Executive Member from 1985; Treasurer in 1995-97; General Secretary in 1997-1998 & Vice President in 2016-18.

He is associated with College Alumni NIT Agartala (Erstwhile Tripura Engineering College) and was in the Students Council of College & also was Vice President of the Alumni Association. He is also associated with School Alumni Netaji Subhas Vidyaniketan and was in the Students Council of School and also was General Secretary of the Alumni Association.

He is member of many other professional organizations like India Society of Engineers (ISE), Kolkata; India Society of Earthquake Technology (ISET), Roorkee and Indian Institute of Bridge Engineers (IIBE), Mumbai. He was the member of American Society of Civil Engineers (ASCE), India Chapter, Kolkata.

Shri Debnath's role and dedication for the development activities of the State of Tripura as well as for the cause of professional upliftment of Engineering fraternity in the Country is praiseworthy and worth emulating.



Maj. Gen. Ashok Kumar, AVSM Immediate Past President

Maj. Gen. Ashok Kumar, AVSM is an alumnus of IMA Dehradun and was commissioned on 19th Dec. 1987. His academic qualification includes B.Sc (Physics) from Bombay University, B.Tech. (Civil) & M. Tech. (Structures) from Jawaharlal Nehru

University, M. Phil from Madras University and MMS degree from Osmania University. He has attended many prestigious courses in the Army including the course at National Defence College, New Delhi. He is superannuated as Director General Works at the E-in-C's Branch.



O.P. Goel, Founder President

Former Director General, CPWD, Shri Goel was the prime force in establishing IBC, brick by brick as Founder President and has vast experience in all facets of Building Engineering which include besides various types of buildings viz. residential, Institutional and Infrastructural and highways, intricate projects like chimneys, towers, dams, barrages, bridges, water supply and sewerage plants in India, Nepal and Iraq. He was President of the Institution of Engineers (India), Indian Institution of Technical Arbitrators and International Council of Consultants. He was Vice-President of Indian Council of Arbitration and Indian Roads Congress. He has been conferred Lifetime Achievement Award by CPWD, IBC and Institution of Engineers (India). He continues to be a guiding force for IBC, giving valuable suggestions.



Mayank Tilak, Vice President

Shri Mayank Tilak did his BE (Civil Engineering) & ME (Structural Engineering) with Gold Medal from IIT Roorkee (then University of Roorkee).

He joined CPWD in 1989 through Combined Engineering Services Examination 1987. During more than 35 years of his service, he has varied experience of working on progressively responsible positions for M/o Housing & Urban Affairs, M/o External Affairs & M/o Home Affairs among other clients. He specialized and contributed in Project Management & Contract Administration; International Projects with State of Art facilities for Govt. of India; Border Infrastructure projects for security & integrity of our country; Quality control of major projects of Common Wealth Games 2010 at Delhi; Techno Legal matters of major projects; design of prestigious buildings i.e. Advocate General, UP, Allahabad & NGMA; Capacity building of direct recruits & in service Engineers & Architects; Investigation of complaints of irregularities in Public works & vigilance matters. He superannuated as Special Director General, CPWD.



Ms. Veena Sinha, IRSEE, Vice President

Ms. Veena Sinha is Chief Executive Officer, Railway Energy Management Company Limited (REMCL); She did M. Tech, MBA, PGDFM and is a certified energy auditor. She is an IRSEE officer of 1995 batch, has experience in the field working and policy making in the area of renewable energy, rolling stock maintenance and operation, building maintenance (electrical component), sustainable built environment and procurement, information and public awareness and international cooperation and energy management.



Salil R. Shrivastav, Vice President

Shri Salil R. Shrivastav a Civil Engineer BE (Hons), having around 35 years of experience in Urban Infrastructure Planning and Execution. He lead the planning and development of the new city of Nava Raipur Atal Nagar(Naya Raipur) from the beginning. He has also lead the ICT enablement of Infrastructure in Smart City Nava Raipur. He belongs to 1987 batch of UPSC, Engineering Services. He was given Engineer of the Year award for the state of Chattisgarh in 2016. He was selected as one out of 51 Fabulous Global Smart Cities Leaders in the year 2020 by ET Now and CSR. He has vast experience in Telecom construction engineering. Currently, he is Engineer in Chief Nava Raipur Atal Nagar Vikas Pradhikaran. He was also posted as OSD to the Dept. of Hsg & Env. Government of Chhattisgarh between 2020-24. He is a member of the Academic Council of NIT Raipur and ITM University for last many years.



Sudhanshu Shekhar Rai, Vice President

Shri Sudhanshu Shekhar Rai embarked on his journey as a civil engineer after completing his B.Tech from BIT Mesra, Ranchi in 1986. He began his career as an Assistant Engineer in the Road Construction Department, Bihar in 1987, stationed in Patna for Advance Planning. Over the next few decades, his expertise grew, leading him to the Building Construction Department in 1992. His dedication earned him the Chief Minister's Award for Excellence in Construction in 1994.

In 2020, he became Chief General Manager of the Bihar State Building Construction Corporation Limited (BSBCCL) and in 2023, he was awarded with prestigious Vishwakarma Award for his work on the Anjuman Islamia Building Project at ICAR, Delhi. Currently, he is serving as the Engineer-in-Chief, Additional Commissioner and Special Secretary of the Building Construction Department, Government of Bihar where his vision for excellence in construction continues to drive his work forward.



Shaligram Baghel, Vice President

Shri Shaligram Baghel did B. Tech. (Civil) from R.D. University, Jabalpur in 1989. He started his career as Assistant Engineer in PWD, Govt. of Madhya Pradesh. He has more than 30 years of experience in the field of survey investigation, field and laboratory testing, writing reports, interpretation of lab results and reports, estimates and detail project report (DPR) preparation, grant of technical sanctions (T.S.), supervision and quality control (SQC), preparation of work contract bills, contract design, project management, arbitration in work contracts, interpretation and investigation of quality issues in civil works, issuance of technical circular, schedule of rates (SOR), rehabilitation report for building and bridges, review, monitoring, reporting of progress of works, budget control. Presently he is E-in-C, (Building), PWD, Govt. of Madhya.



V.R. Bansal, Hony. Secretary

Shri Vishv Ratan Bansal is a former Chief Engineer from the erstwhile North Delhi Municipal Corporation (Now Municipal Corporation of Delhi). He has 40+ years of experience in the field and has handled various building and road projects including multi-level Car Parking, Road-under-Bridges, and Road-over-Bridges; besides having experience in structural design of multi-storied buildings and maintenance works and implementation of Building bye-laws. Some of the prestigious projects he has handled include India Population Project-VIII funded by the World Bank and the setting up of the Modern Slaughter house at Gazipur. He is associated with many technical organizations and is a Fellow Member, Institution of Engineers (India), Indian Institute of Technical Arbitrators (India); and Life Member of Indian Buildings Congress, Indian Roads Congress, Indian Chapter of American Concrete Institute, Institution of Valuers, Indian Council of Arbitrators, INTACH, besides many others. He has been actively associated with the activities of IBC for long and is a permanent invitee to its Executive Committee and Governing Council.



Vijay Kumar Choudhary, Hony. Treasurer

CA (Dr.) Vijay Kumar Choudhary, an MBA (HR) and Ph.D in “Strategic Disinvestment of CPSE in India” is a qualified Chartered Accountant. He is presently holding the position of Executive Director (Finance) with NBCC (India) Ltd. He has also done Certificate Course of FxTM from ICAI. His outstanding contributions include implementation of GST, valuation of PSU for Merger & Acquisition in the organisation. Earlier, he has worked for 16 years with NHPC Limited.



Ranjit Kumar Majumder, Executive Member

Shri Ranjit Kumar Majumder did graduation in Civil Engineering from Calcutta University and also holds a Master's degree in Soil Mechanics and Foundation Engineering from Guwahati University. He has 47 years of experience in design & construction of Civil Engineering projects. He worked in PWD, Govt. of Tripura for most of his career on several construction projects of building, bridges and earthquake vulnerability assessments & retrofitting of structures. He also worked as Director, Urban Development Department, Govt. of Tripura on being selected in IAS Cadre through UPSC from Non – Civil Service Category. He spearheaded the construction of roads and bridges under the Pradhan Mantri Gram Sadak Yojana in Tripura as Chief Executive Officer. He is the Life Member of The Institution of Engineers (India), Indian Buildings Congress, Indian Roads Congress and Indian Geotechnical Society. He was also Member of the Highway Research Board, Govt. of India. He has presented many technical papers in the country as well as Nepal & Bangladesh.



Dr. K.M. Soni, Executive Member

Dr. K. M. Soni, BE (Civil), M. Tech, MBA, PhD is former, Additional Director General of CPWD having rich experience of 36 years in planning, construction and maintenance of Buildings. Dr. Soni has presented and published many technical papers and received many awards including DG, CPWD medals, CIDC Public Officer trophy, CIDC Technologist award, CPWD, IBC & CIDC best project trophies, IBC best paper medals and many commendation certificates from other organisations. Dr. Soni has been member of Leadership Excellence of Harvard Square, Senior Professional Engineer of ECI, FIE (I), Chartered Engineer, MIBC, MIGS, MISTE, MIRC, FIITArb, Expert Member of Engineers Excellence. At present he is Expert advisor for BRSA and International Buddhist Confederation, DRB member for NHAI and Arbitrator for CPWD.



M. Nagaraj, FIE, Executive Member

Shri M. Nagaraj did BE from Mysore University in 1974 and ME from Indian Institute of Science, Bangalore in 1976 and MBA from Bangalore University in 1983. He started his career in 1976 as Lecturer from Karnataka Regional Engineering College (NIT), Surathkal, Karnataka. He retired from PWD, Govt. of Karnataka in 2012. He has vast experience of Construction of Aquarium Building at Cubbon Park, Bengaluru; Construction of Institute of Animal Health and Biological Building at Hebbal, Bengaluru. He is Member, Technical Committee, Rajiv Gandhi University of Health Sciences, Bengaluru; Member, The Institution of Engineers (India) Kolkata since 1975. He is Governing Council Member for Indian Buildings congress and Indian Roads Congress.



Hitendra Mehta, Executive Member

Shri Hitendra Mehta is a civil engineering graduate from SGSITS, promoter of Mehta and Associates LLP and one of the leading Architecture, Urban Planning and Project Management Consultancy firm. As promoter of Mehta and Associates, LLP, Hitendra Mehta has been involved in conceiving, designing and execution of many real estate and public private partnership projects since last 29 Years. Mehta and Associates LLP is also serving as Project Management Consultants for various organisations. As of Mehta and Associates LLP, Shri Hitendra Mehta has been involved in conceiving, designing and execution of many award winning and Internationally acclaimed projects.



Col. (Dr.) Anand Mathialagan (Retd.), Executive Member

Col. (Dr.) Anand Mathialagan did M.Tech in Quality Management from BITS Pilani and MBA in Disaster Management from Indian Red cross Society, MBA (Human Resources) from Punjab Technical University. He did Diploma in Business Administration (Finance) Symbiosis. He was commissioned in Indian Army in 1991. He served in all three services of Armed Forces, Coast Guard and Defence Ministry. He received commendation for exemplary service while serving in counter insurgency operational area in Kashmir from Chief of Army Staff and commendation for the role played in Kargil Operation from Commander-in-Chief, Air Force Western Air Command.

He has successfully completed various projects PAN India. Some of the completed major projects are - Infrastructure for Rafel Aircraft at Ambala, Infrastructure at Sukhoi Aircraft at Sirsa, Missile Storage Sheds at Air Force Station Sirsa, Construction of workshop with all services at Heavy Vehicle Factory at Avadi, Pre-Engineer Multistory Corporate office building at UJVNL Dehradun, Laboratory at Agra for Leather Ministry projects. At present, he is Chief Executive Officer of M/s RCC Infraventures Limited Since 2017 and member of Defence Advisory Audit Board since 2021.



Gian P. Mathur, Executive Member

Shri Gian P. Mathur, Director, Gian P. Mathur & Associates Pvt. Ltd. is presented with 'Outstanding Contribution to IBC Award, 2020-21' for his valuable services and outstanding contribution to IBC. A lot of what GPM Associates, a 120 member organization today, has achieved can be attributed to the vision and leadership of Shri Gian P. Mathur. With over 40 years of experience, he is a leading consultant in the architecture and design industry and one of the few Indian architects who have expertise in designing various large-scale projects be it multiland use projects, housing, commercials, institutional, industries, Metro & Railway station development.

Shri Mathur is actively involved in design process and continuously re-evaluates the approach, primarily towards designing recognizable and engaging architecture, promoting community living, and ensuring an environmentally friendly & sustainable approach in his projects.

106th Governing Council Meeting



106th Governing Council Meeting in Progress

The 106th meeting of Governing Council of IBC was held on July 14, 2024 in Manekshaw Centre, Dhaula Kuan New Delhi. About 57 Governing Council Members including Special Permanent Invitees and staff of IBC Sectt. were present. The following important decisions were arrived at during the Council Meeting:-

- Shri S.R. Baghel, Engineer-in-Chief, MP PWD; Shri Vijay Kumar Choudhary Executive Director (Finance), NBCC (India) Limited and Ms. Veena Sinha, IRSEE, CESE & Energy Manager, Northern Railway were co-opted to the new Governing Council under Rule 9.4.2 of Rules and Regulation.
- Shri Mayank Tilak, SDG Border, CPWD; Ms. Veena Sinha, IRSEE, CESE & Energy Manager Northern Railway; Shri Salil R. Shrivastav, Engineer-in-Chief, Nava Raipur Atal Nagar; Shri Sudhansu Shekhar Rai, Engineer-in-Chief, Bihar Construction Department & Shri S.R. Baghel, Engineer-in-Chief, MP PWD were declared as Vice President, for the year 2024-25.
- Shri C. Debnath, Fmr SE (Bldg), Tripura PWD was appointed as President of IBC for the year 2024-25.
- Shri V.R. Bansal, Fmr. CE, MCD, was appointed as Hony. Secretary for the year 2024-25.
- Shri Vijay Kumar Choudhary, Executive Director (Finance), NBCC (I) Limited was appointed as Hony. Treasurer, IBC for the year 2024-25.
- Under Rule 9.4.2 of IBC, Governing Council authorized the new Executive Committee to co-opt the remaining Governing Council members.
- The Governing Council authorized the Executive Committee to fill up the vacancies that have remained vacant under Rule no. 9.1.3.1 to 9.1.3.10 of the Rules & Regulations of IBC.



Shri C. Debnath newly elected President, IBC addressing the 106th Governing Council Meeting

Meeting of Executive Committee 2024-25

1st Executive Committee Meeting at IBC HQ, New Delhi

The following important decisions were taken in the 1st meeting of the Executive Committee for session 2024-25 held on 27th July 2024.

1. President expressed his vision for the IBC for the next one year culminating following issues.
 - i) To hold regular meetings across the country by holding six meetings of the Executive Committee and three meetings of the Governing Council during this term.
 - ii) Publication of the magazine "Built Environment" every quarter and to offset the expenditure through advertisements to be inserted in the publication.
 - iii) Celebration of the Foundation Day of IBC on 1st September in IBC HQ and also by the IBC Chapters at their respective offices.
2. The EC authorized the President, IBC to reconstitute the DRC, with Shri Salil Rai Shrivastava and Shri Mayank Tilak, the two Vice Presidents of IBC, as its members.
3. It has been decided to hold the Mid-Term Session along with a Seminar.
4. It was also decided to hold the Annual Convention in September 2025.
5. The Quarterly GC meeting schedule will be December, March, June and one with annual convention will be held in September, 2025.
6. It was decided to hold the next EC meeting on 17th August 2024 at IBC HQ followed by a technical talk to be delivered by the Head of one of the Founder/ Pillar organizations.
7. The bi-monthly EC Meetings to be held in October, December, February, April, June, August and there will be 2(two) special EC meeting just before and after Annual Convention meeting.
8. The following six members were nominated as the members of the Executive Committee for the year 2024-25: -
 - (i) Shri Gain P. Mathur, Director, Gian P Mathur & Associates, New Delhi.
 - (ii) Shri Krishna Kant, Fmr. CE, CPWD & UN Expert, New Delhi.
 - (iii) Shri Hitendra Mehta, Managing Director, Mehta & Associates, Indore.
 - (iv) Shri Ranjit Kumar Majumder, IAS (Retd.), Fmr. Director UD Department, Tripura.
 - (v) Shri M. Nagaraj, Consulting Engineer and Retd. Engineer, Karnataka
 - (vi) Col. (Dr.) Anand (Retd.), Member (Infra), Defence Audit Adv. Board, New Delhi.
9. EC approved the extension of the service contract of the contract staff on the same terms and conditions as in their existing contract. It also allowed a 10% increase in their remunerations against the list.

10. For the smooth functioning of the IBC secretariat, the EC approved the proposal for the delegation of financial powers as under: -

- a) Dy. Secretary (T) can sanction and approve expenditure up to Rs 500/- at any one given instant, subject to the overall limit of Rs 4,000/- per month.
- b) Executive Director, IBC can sanction and approve expenditures up to Rs 5000/- per single voucher, subject to an overall limit of Rs. 40,000/- per month.

Other Activities

IBC delegation meets Shri Rajesh Kumar Kaushal, Director General, CPWD



Meeting in Progress

Shri C. Debnath, President, IBC called on Shri Rajesh Kumar Kaushal, Director General, CPWD in his office, Nirman Bhawan, New Delhi on 26th July, 2024. He was accompanied by Shri Mayank Tilak, Vice President, IBC & Fmr. SDG, CPWD; Shri H. P. Gupta, Past Hony. Secy., IBC & Shri I. S. Sidhu, Executive Director, IBC. The fruitful discussions were held between Shri C. Debnath, President, IBC and Shri Rajesh Kumar Kaushal, Director General, CPWD with specific focus on involvement of CPWD in IBC activities. Shri Debnath also extended and invite to Shri Rajesh Kumar Kaushal, Director General, CPWD to deliver a keynote address in the Seminar on “Infrastructure Development in North East Region” to be held at Agartala on 25th August, 2024 by the IBC Tripura Chapter in connection with their 18th AGM.

Shri Kaushal gracefully accepted the invitation and also assured the participation of CPWD Engineers in Tripura Chapter in the Seminar.

IBC delegation meets Shri Chanchal Kumar, IAS, Secretary, DoNER

Shri C. Debnath, President, IBC met with Shri Chanchal Kumar, IAS, Secretary, DoNER in his chamber at Vigyan Bhawan, New Delhi on 26th July, 2024 along with Shri K. K. Kapila, Past President; IBC & Shri V. R. Bansal, Hony. Secretary, IBC. During the discussion Shri Shantanu, IAS Joint Secretary, DoNER was also present.

IBC delegation meets Member Infrastructure, Railways



Shri A. K. Khandelwal, Member- Infrastructure, Railways being presented bouquet

Shri C. Debnath, President, IBC alongwith Shri Shri V. R. Bansal, Hony. Secretary, IBC courtesy meet with Shri A. K. Khandelwal, Member- Infrastructure, Railways Department in his chamber at Railway Bhawan, New Delhi on 26th July, 2024. Discussion centred around increasing involvement of Railways in the activities of IBC. Shri Debnath also extended and invite to Shri A. K. Khandelwal, Member- Infrastructure, Railways Department to deliver the Keynote Address on ‘Railway connectivity in N. E. Region’ on 25th August, 2024 at Agartala being organised by IBC, Tripura Chapter for which he graciously consented.

Independence Day Celebration

Independence Day was celebrated in Indian Buildings Congress Headquarters on August 14, 2024. Flag hoisting ceremony was held in the lawn in front of Indian Buildings Congress Campus. The National Flag was jointly unfurled by Shri O.P. Goel, Founder President and Shri V.R. Bansal, Hony. Secy., IBC in the presence of office bearers; staff of IBC and invited staff of tenant - NAREDCO, IHAT and IITArb. National



Anthem was sung after unfurling of National Flag. Sweets distributed to celebrate the occasion.

Lecture on How Technology can help in Building Sustainable Infrastructure

Indian Buildings Congress has started a Lecture Series on topics of interest to the Professionals in Built Environment. First lecture of this series was organized on the topic **“How Technology can help in Building Sustainable Infrastructure”**. Lecture was held on 17th August, 2024 at India International Centre, Annexe Building, K.K. Birla Lane, Lodhi Estate, New Delhi.

The programme was hosted by Shri K.K. Kapila, Past President, IBC. He invited the dignitaries on the dais to join the lighting of ceremonial lamp.

The first speaker was Shri Sanjay Kumar Varshney, ED-cum-COO, Signature Global India Ltd. who made his presentation on the topic ‘How Technology Can Help In Building Sustainable Infrastructure’. In his presentation, he explained how sustainable infrastructure is designed, built, and operated to minimize environmental impact. It emphasizes energy efficiency, resource conservation, and long-term sustainability. It supports economic and social development. Sustainable Infrastructure mitigates climate change by reducing carbon emissions. It promotes efficient use of natural resources. He mentioned about Global Impact and Urgent Need for Sustainability. Infrastructure accounts for 70% of global greenhouse gas emissions. Rapid urbanization demands sustainable development, the construction industry consumes about 40% of the world’s raw stone, gravel, and sand, and 25% of virgin wood annually, accounts for 40% of global energy use and 16% of water usage. He explained about Technology as a Catalyst for Sustainable Infrastructure in which technology enables efficient resource utilization, innovation drives sustainable

practices in construction and operation, supports data-driven decision-making for long-term sustainability. He mentioned about use of internet of things (IoT). It is used for Energy and Water management, and overall optimization. Artificial intelligence (AI) is revolutionizing the way we design, build, and operate sustainable infrastructure, AI-powered systems can optimize energy efficiency, predict maintenance needs, and enhance overall resource, utilization to create a greener, more resilient future. He mentioned about Building Information Modeling (BIM) that plays a crucial role in supporting sustainable development by enabling data-driven design, construction, and operation of buildings and infrastructure. BIM integrates real-time data to optimize energy efficiency, resource utilization, and life-cycle performance.

At the end he mentioned about embracing technology for a greener future. He explained about Integrated Approach, Continuous Innovation, Collaboration and Partnerships Public Awareness in detail.

The second speaker was Dr. Mahesh Kumar, Fmr. E-in-C, Haryana PWD. & Past President, IBC who made his presentation on the topic ‘Quality of Water-Challenge for Sustainable Infrastructure’. In his presentation, he explained the characteristic of ground water in several parts of north India is changing fast resulting in a reduced life of Reinforced Concrete structures which may vary from 15 to 30 years depending upon severity of character of ground water. He explained appropriate care in use of water during construction and subsequently protecting the structure from the aggressive environment helps in giving a designed life to such like structures. He informed that excessive dissolved salts effect our kidney, excessive nitrates results Blue baby syndrome in infants, excessive sulphates results Gastric problems and excessive fluorides creates dental disorders.

The results of the investigation shows that the soil in and near Rohtak & Jhajjar contains sulphates and chlorides. The chloride content ranges from traces to as high as 0.50 percent and the sulphates content ranges from traces to as high as 0.56 percent. The water in Sonapat distt. is alkaline and does not meet with requirements of IS 456.

On testing of large number of samples of water, alkaline water was found which needed a treatment of addition of acid of defined normality. For Water samples having chlorides and sulphates beyond permissible limits, RO is must. Foundations in aggressive water need a multi layered treatment to prevent damage from aggressive salts.

Vote of Thanks

Shri V.R. Bansal, Hony. Secy., IBC while delivering the Vote of Thanks expressed sincere thanks to esteemed speakers, Sh. Sanjeev Varshney, ED and COO, M/s Signature Global Group, Dr. Mahesh Kumar, President, M/s ICT Ltd and past-President, IBC, for agreeing to be the Speakers of the day and giving an insightful and thought-provoking views on how the technology can drive the creation of sustainable infrastructure.

He thanked Sh. KK Kapila ji, Chairman, ICT and past-president, IBC for conceptualizing the event, managing all the back-room management and moderating the entire show.

Sh Bansal thanked Sh. C. Debnath, President, IBC and mentioned that under his leadership a series of such events have been planned in the next one year.

Sh Bansal extended his sincere thanks to Founder President, who has always been a source of inspiration for all. He thanked each member of the organising Team, especially Sh. I.S. Sidhu, Executive Director, IBC, for making this attempt of IBC a successful one.

While concluding, he extended his heartfelt gratitude to audience for showing their solidarity on a Saturday evening of a long weekend and solicited the support for future endeavour of IBC.

IBC Foundation Day



Dignitaries on Dais

33rd Foundation day of IBC was celebrated in Seminar Hall of IBC HQ Building, at Kama Koti Marg, Sector VI, R.K. Puram, New Delhi on September 1, 2024. The Programme began with observing 2 minutes silence in memory of Late Shri Krishna Kant, Fmr. UN Expert; Former Chief Engineer, CPWD & Executive Committee Member of IBC and Late Shri P.C. Sharma, Executive Engineer, MDA & Life Member of IBC.

The Honorary Secretary, Shri V.R. Bansal invited dignitaries on the dais to join the Lighting of Ceremonial lamp. IBC song was played to begin with and Welcome Address was presented by Shri C. Debnath, President, IBC.



Lighting of Ceremonial Lamp

In his address he welcomed the IBC dignitaries Shri O.P. Goel, Founder President; Maj. Gen. Ashok Kumar AVSM, Immediate Past President; Shri Mayank Tilak, Vice President; Shri K.B. Rajoria, Past President; Shri Parimal Rai, IAS, Past President; Shri S.K. Vij, Past President; Shri C.S. Prasad, Past President; Shri V.S. Verma, Past President; Dr. Mahesh Kumar, Past President; Dr. P.S. Rana, Past President; Shri K.K. Kapila, Past President; Shri Saurav Choudhury, Counsellor, IGBC; Shri V.R. Bansal. Hony. Secy., and all EC/GC members present in the Hall.



Shir C. Debnath delivering the Welcome Address

The President in his Address remembered the contributions of Late Shri Krishna Kant and Late Shri P.C. Sharma. He talked about the vision of IBC and the ways to fulfill it. He wanted to hear from the Past Presidents about their experiences of past 32 years of IBC, their suggestions in improving the Pan India presence of IBC.

Thereafter all the Past Presidents who were presented were honoured by President Shri C. Debnath by offering a shawl and sapling.

Felicitation Gallery of Past Presidents



Shri O.P. Geol, Founder President



Shri C.S. Prasad, Past President



Dr. Mahesh Kumar, Past President



Dr. P.S. Rana, Past President



Shri K. B. Rajoria, Past President



Shri K.K. Kapila, Past President



Shri V.S. Verma, Past President



Shri Parimal Rai, Past President



Shri S.K. Vij, Past President



Maj. Gen. Ashok Kumar AVSM, Past President

Technical Session



Shri Saurav Choudhury presenting the Technical Talk

As part of Foundation Day Celebration, a Technical Talk on the topic “How AI can help in creating Sustainable Infrastructure” was presented by Shri Saurav Choudhury, Architect & Master Planner and Counsellor, CII, IGBC and Green Building Professional at the CII- Sohrabji Godrej Green Business Centre, Hyderabad. He has work experience spanning over 11 years. He is a University Gold Medalist in Bachelors of Architecture, GATE Scholar and completed his master in Infrastructure Planning from CEPT, Ahmedabad. He is IGBC Accredited Professional, IGBC Faculty, IGBC Assessor and co-author of 8 IGBC ratings on green infrastructure and green built environment.

He began his talk about enabling a sustainable built environment for all that facilitates India to be one of the global leaders in the sustainable built environment by 2025. He stressed upon rediscovering of the Indian ethos i.e. worshipping 5 elements of Nature (Panchabhutas) – Prithivi (Earth), Agni (Fire), Vayu (Air), Jal (Water) and Akash (Sky).

He talked about different IGBC rating systems for different types of buildings, advantages of green buildings incentives by Government in Green Building Projects, financial incentives by different states. He informed about 60+ townships going green in India, Green Metro Rail/ Green Railway Stations and Green villages.

He discussed the impact of rise in temperature, importance of low carbon infrastructure, how can cities become green and low carbon.

He talked about SDG -2030 (Sustainable Development Goals-2030) and Green Planning. He gave the data regarding surface water and informed that India is among most water stressed countries in the world.

He informed that there are 8250+IGBC Certified Green Products in the market. He talked about digitization and different means of making Cities Smart and Green.

There were questions raised by the audience which was replied by Shri Saurav Choudhury satisfactorily.



Memento being presented to Shri Saurav Choudhury

To mark the occasion, IBC Memento was presented to Shri Saurav Choudhury, Architect & Master Planner and Counsellor, CII, IGBC by Shri K.K. Kapila, Past President, IBC

Maj. Gen. Ashok Kumar AVSM, Immediate Past President, summed up the Technical Session. He mentioned the Technical Talk on “How AI can help in creating Sustainable Infrastructure” very informative and interesting. He requested all to participate and get involved in nation building and protecting our natural resources.



Shri O.P. Goel, Founder President, IBC addressing the Gathering

Shri O.P. Goel, Founder President, IBC addressed the gathering by sharing his memories starting from initial days of formation of IBC and recalled the developments which led to setting up of the Indian Buildings Congress and its progress. A Founder's meet of 250 top Professionals from all over India was held on 01.09.1992. This was blessed by the then Union Urban Development Minister Madam Sheila Kaul and attended by the then Secretary, Urban Development, Shri Raj Bhargava. A unanimous resolve to Constitute this Body was taken and an Interim committee was set

up to take necessary steps. The Committee met regularly and finalized the draft Memorandum of Association and got it Registered in March 1993. He shared that first Convention was held in 1994 when elections took place and a Governing Council was framed. He recalled the laudable roles played in the initial years by S/Shri K. B. Rajoria, K. K. Bhatnagar, S. P. Jakhanwal, J. R. Bhalla, Suresh Jain among many others . He paid his best regards and thanks for the contribution made by one and all and paid his homage to the Past Presidents who have left this World. He requested all to resolve to keep up the progress and take it to the Zenith.

After speech of Founder President, Shri O.P. Geol, Shri V.R. Bansal invited the Past Presidents of IBC who wanted to share their experiences with IBC and their suggestions moving forward.



Shri K.K. Kapila sharing his experience

Shri K.K. Kapila, Past President, IBC : He expressed his views that there is less representation from Private Sector in IBC. Representation of professionals from electrical, mechanical and air-conditioning should also increase. He also said that the participation of Private Sector should increase.



Shri S.K. Vij sharing his experience

Shri S.K. Vij, Past President, IBC: Shri Vij suggested to increase the activities of IBC in imparting training to workers engaged by contractors at site. He wanted the activity of IBC should be visible in the society.



Dr. Mahesh Kumar sharing his experience

Dr. Mahesh Kumar, Past President, IBC : Dr. Mahesh Kumar mentioned that IBC should come forward with some real innovative work. He talked about IBC website which should be dynamic and interactive for public. He said that IBC should prepare a panel of supervision consultants as they have vast number of experienced experts available.

Presentation of Book to IBC

The book titled “Green Built-Environment-Vol. IV” was presented to Honorary Secretary, IBC by Shri Saurav Choudhury, Architect & Master Planner and Counsellor, CII, IGBC.



Book being presented to Shri V.R. Bansal

Vote of Thanks

Vote of Thanks was presented by Shri V.R. Bansal, Hony. Secy., IBC. He thanked Shri Saurav Choudhury for presenting a very informative and absorbing Technical Session. He thanked Shri O.P. Goel, Founder President, IBC, all Past Presidents, IBC; Shri C. Debnath, President, IBC and all the invitees and Governing Council Members for participating in the Foundation Day Celebration.

Engineers Day Celebrated in IBC HQ



Dignitaries on Dais



Lighting of Ceremonial Lamp

57th Engineers Day was celebrated in the memory of 164th Birth Anniversary of Sir M. Visvesvaraya on September 15, 2024 in the Seminar Hall of IBC HQ Building, Kama Koti Marg, Sector VI, R.K. Puram, New Delhi by conducting a panel discussion on the topic **“Engaging Youth to Create Better Urban Future”**. It was attended by eminent members of IBC. Shri V.R. Bansal, Hony. Secy., IBC welcomed all the members assembled to celebrate the 57th Engineers Day and invited Shri O.P. Goel, Founder President, IBC; Shri Mayank Tilak, Vice President, IBC and Shri I.S. Sidhu, Executive Director on the dais. The programme began with Lighting of Ceremonial Lamp by Shri O.P. Goel, Founder President, Shri Mayank Tilak, Vice President, IBC Shri S.K. Vij, Past President, IBC and other eminent panel speakers.

After Lighting of Ceremonial Lamp, Shri V.R. Bansal invited Shri Mayank Tilak, Vice President IBC to during the Welcome Address. He began his speech by congratulating all on Engineers Day.

He felt privileged to welcome Shri O.P. Goel, Founder President, IBC; Shri C. Debnath, President, IBC; Shri V.R. Bansal, Hony. Secretary, IBC distinguished Panelists and esteemed members off the dais.

He said that we celebrate the birth of Sir M. Visvesvaraya on 15th September every year, as Engineers' Day. Sir M. Visvesvaraya was one of the most accomplished and decorated Civil Engineer in the Country and had series

of achievements to his credit, both in pre-independence and post independence era.



Shri Mayank Tilak Addressing the Gathering

Remembering Sir M. Visvesvaraya he mentioned a sentence written on the walls of one of the Engineering College said by Sir M. Visvesvaraya – “Engineering is an application of science”. The hall of that Engineering College was designed by Sir M. Visvesvaraya a load bearing brick structure without any column with arched roof slab. He stated that Sir M. Visvesvaraya is the only engineer who has been conferred with Bharat Ratna Award by the Government of India. He believed that eminent Panelists taking part in the Panel discussion on this occasion will deliberate on multifaceted areas for engaging youth in creating better urban future. He complimented IBC for organizing Engineers Day celebration and also a Panel discussion on the topic which is of utmost importance in the present day scenario.

Next, Shri C. Debnath, President, IBC was invited to address the gathering. He joined online and welcomed all the dignitaries on the dais and off the dais. He informed that Engineers Day is being celebrated by all the Sate/Local Chapters of IBC all over the country. He described the background from where the Engineers Day celebration started in the memory of birth of Sir M. Visvesvaraya by Government of India. he hoped that the discussion scheduled on this occasion “Engaging Youth to Create Better Urban Future” will be a fruitful discussion.

Next, Shri O.P. Goel, Founder President, IBC was invited to speak on this occasion about Sir M. Visvesvaraya. He read out in brief about Sir M. Visvesvaraya.

Sir, Mokshagundam Visvesvaraya, better known as M. Visvesvaraya, was a man of high principles and discipline. An idealistic person, he believed in simple living and high thinking.



Shri O.P. Goel Addressing the Gathering

He joined the Indian Irrigation Commission and helped to implement a complex system of irrigation in the Deccan area.

The Visakhapatnam port was in danger of being eroded from the sea. Visvesvaraya with his high intelligence and capabilities came up with a good solution to solve this issue.

He was appointed as the Chief Engineer of Mysore State in 1909 and as the Diwan of the princely state of Mysore in 1912, a position he held for seven years. As the Diwan, he made immense contribution towards the overall development of the State.

He was awarded with independent India's greatest honour, The Bharat Ratna in 1955 for his relentless work in the fields of engineering and education.



Panelist on Dais

Thereafter panelist of the day, Shri A.K. Jain, Fmr. Commissioner (Plg.), DDA; Dr. O.P. Tripathi, Fmr. E-in-C, Delhi PWD; Dr. K.M. Soni, Fmr. ADG, CPWD; Ms. Reshma Dudani, Executive Director, NBCC (I) Ltd. and Shri Arun Sahai, COO, ACIL were invited on dais for Panel Discussion by Shri V.R. Bansal, Hony. Secretary, IBC.

At the outset, Shri A.K. Jain, Fmr. Commissioner (Plg.) DDA made a presentation on the topic of the day to set the tone of the technical deliberations. He mentioned that in his presentation according to India's National Youth Policy of 2014, the term "youth" refers to people between the ages of 15 and 29. In 2021, India's youth

population is estimated to be 37.14 crore, or about 27.3% of the country's total population.



Shri A.K. Jain

India is moving towards a developed economy by the year 2047 and will have a population of 1,640 million, i.e. one-sixth of world's population, of which 50% each will be urban and rural (820 million each). Of this about 50% will be women. It will have the world's largest workforce and will be the world's third largest economy of \$36 trillion. It is projected that 75% of GDP and new jobs will be created in the cities. This requires giving space to the youth and leveraging their potential by incentivising them to live, play, learn, entertain and work in making India a developed nation and arousing their sense of belonging, esteem and self-development. The space must be affordable, universally accessible, safe and environmentally sustainable.

The foremost priority of the youth is a job for living. Unemployment and underemployment are the major issues of urban and rural youth. With lack of jobs in the formal sector, the youth are shifting to small businesses, vending and as labourers. In view of low level of income and uncertain jobs, shelter is the major issue of the youth.



Dr. O.P. Tripathi

The 2nd Panelist was Dr. O.P. Tripathi, Fmr. E-in-C, Delhi PWD. He talked about unemployment of youth particularly Civil Engineers. He said that a fresh graduate in Civil Engineering is not offered more than 20,000/- in the private sector. He described other issues faced by the youth and labourers at construction site like poor habitation and sanitation. He said that better urban future involves many things including a crime less society. We have to think about involving our youth in development of a better society. Construction sector is the most important sector in the world that engages our youth in big number. He stated that role of structural design work has been taken over by IITs / NITs as the vetting work in EPC contract is mandatory by such institutions.



Dr. K.M. Soni

The 3rd Panelist, Dr. K.M. Soni, Fmr. ADG, CPWD, informed that this topic of “Engaging Youth to Create Better Urban Future” has come from world Bank. This topic is for our future generation. Ours is the country of youth as 50% youth of age below 25 years lives in India. He talked about the divide between Rural and Urban Youth due to their background. Youth includes all educated – uneducated, engineering graduate-non engineering graduate. We have to understand each category of them and engage them. He described the result of engaging youth in Haryana and Manipur and how it has produced the best result in sports. He said that we are not aware what our youth needs today. He informed that IT sector has engaged our youth in a big way with good salary that is the reason that bright student are not attracted towards Civil Engineering. These days our schools have introduced basic knowledge about IT at school level. This has generated awareness about the basics of IT in our children at school level. He stated that on similar lines basic Civil/Electrical/Mechanical engineering should also be started at school level.



Ms. Reshma Dudani

Next panelist was Ms. Reshma Dudani, Executive Director, NBCC (I) Ltd. She expressed her view that IBC has a good strength of experienced members in the field of engineering. So IBC should enlist a panel of experts. She said that sharing of knowledge in the society is very important. Discipline among youth is the basic requirement as on today. Behavioural aspect is also very much desirable in today's youth. She mentioned that for employability such qualities including integrity is essential. IBC can play a lead role in imparting such trainings among the youth of engineering colleges.



Shri Arun Sahai

Next panelist was Shri Arun Sahai, COO, ACIL. He opined that first of all a person should be a good human being in addition to his qualification. There is no replacement of wisdom and experience. His opinion was engaging youth is always helpful. He talked about his company where a lot of young engineers are

working. He said that even for Civil Engineers, salary is not a problem. With one or two years of experience they get good salary in private company also. He said that EPC has opened a vast field of opportunity. Things are happening very fast and opportunity in infrastructure sector is huge. Youth are fast learners. New techniques have comp up where todays youth can make a big change.

The programme was summed up by Shri I.S. Sidhu, Executive Director, IBC. He said that all the panelists spoke about the variety of issues being faced by the youth. The issues are important and IBC will think about the implementation of suggestions made.



Shri Ajay Kumar

On special request, Shri Ajay Kumar, Head of Civil Engineering Department, NIT, Delhi was asked to speak on the occasion. He said that pay package offered to Civil Engineers is very less in comparison with graduates of IT. Therefore the attraction towards Civil Engineering has reduced. He said that there should be some minimum salary fixed by the Government in EPC contract. He said that NIT will be happy to have speeches by the experts of IBC.



Concluding remarks by Shri S.K. Vij

Shri S.K. Vij, Past President, IBC made concluding remarks in the technical deliberation. He found the remarks of Shri Arun Sahai, COO, ACIL very encouraging about the Youth. He said that engaging youth by the Government and the society is the need of

the hour. He said that the day to day problem like water and drainage system is a big failure.

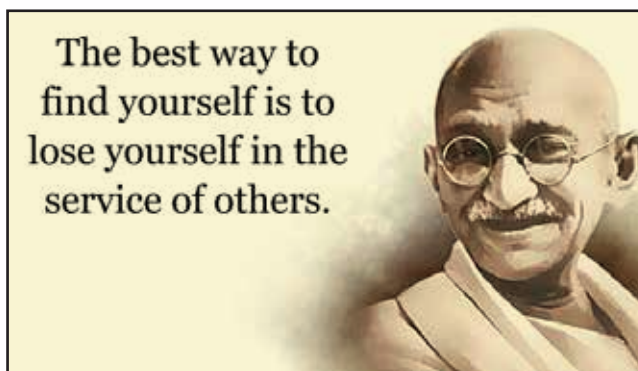
At the end of panel discussion, Question – Answer Session was followed. Many members from the audience raised their views and shared their experiences. One of the member remarked that there is no youth in the audience for whom the discussions are intended. Shri V.R. Bansal, Honorary Secretary, IBC responded with that the IBC is thinking on those lines.



Shri V.R. Bansal proposing Vote of Thanks

Vote of thanks was presented by Shri V.R. Bansal, Hony. Secy., IBC. He also extended his view and said that the pay structure offered to graduate Civil Engineers in Private Sector is very less in comparison with other branches of engineering. He said that the number of private engineering colleges has increased in big number but the quality of education has gone down.

He thanked Shri O.P. Goel, Founder President, IBC for sparing his time. He thanked all the panelists for sparing their time and agreeing to speak on this occasion. He specially thanked Shri A.K. Jain, Fmr. Commissioner (Plg.) DDA, in guiding for selection of topic “Engaging Youth to Create Better Urban Future”. He thanked all the members who participated in celebration even being Sunday. Programme was followed by lunch.



Felicitation Gallery of Panelists

To mark the occasion, IBC Mementos were presented to the Panelists by Shri O.P. Goel, Founder President, IBC



Shri A.K. Jain



Dr. O.P. Tripathi



Dr. K.M. Soni



Ms. Reshma Dudani



Shri Arun Sahai

Activities of State/Local Chapters

Local IBC Chapter- Kota

Technical Visit by IBC Members

IBC Local Chapter Kota organized technical visit of Under Construction project of Cancer Project Block cum Multispecialty Hospital owned by Bharat Vikas Institute of Medical Sciences at Kota on 17/03/2024.

The overall cost of the project is Rs 1200.00 crores. Presently under "Phase I" out of 14 floors for Construction of Cancer block Cum Multispecialty Hospital is in progress in full swing with target to complete it before 30/06/2025. The overall capacity will be 700 plus beds in future.

Reinforcement procured from SAIL of Fe 550 grade, couplers used instead of overlaps in reinforcement, M 30 & M 35 grade of RCC with design mix concrete used in construction with all Quality Control measures at site.

Around 26 member of IBC Kota Chapter including Chairman- Shri Suresh Kumar Bairwa, Former Addl. Chief Engineer, PWD Rajasthan, Vice Chairmen – Shri V.K. Jain, SE; Shri Virendra Kumar Porwal, Ex.

En.; PWD Rajasthan; Shri Rajendra Singh, Secretary- Shri Hemant Kumar, Ex. En., PWD Rajasthan, Ex. Secretary- Shri R.P. Sharma, Fmr. Ex.En. PWD Rajasthan, Treasurer – Shri Ashok Kumar Sanadhya, Ex. En., PWD Rajasthan and other members of Kota Chapter were present during the technical visit.

5th Annual General Meeting & Technical Seminar



मुख्य अतिथि श्री सी.एल. वर्मा को स्मृति चिन्ह द्वारा स्वागत करते हुए

आई.बी.सी. कोटा लोकल चैप्टर द्वारा दिनांक 18.08.2024 को 5वीं वार्षिक आमसभा एवं सेमिनार का आयोजन बूंदी रोड स्थित महेश्वरी रिसोर्ट में किया गया। इस अवसर पर समारोह के मुख्य अतिथि आई.बी.सी. जयपुर के चेयरमैन रिटायर्ड चीफ इंजीनियर एवं अतिरिक्त सचिव (पीडब्ल्यूडी) श्री सी.एल. वर्मा; अतिरिक्त मुख्य

अभियंता (पीडब्ल्यूडी) श्री ए.के. साहू; विशिष्ट अतिथि रिटायर्ड मुख्य अभियंता (पीडब्ल्यूडी) श्री धीरेन्द्र माथुर; आई.बी.सी. कोटा चैप्टर के सचिव श्री हेमन्त कुमार शर्मा; निवर्तमान चेयरमेन श्री पी.के. जैन मंचासीन रहे। अतिथियों द्वारा माँ सरस्वती के चित्र पर माल्यर्पण एवं दीप प्रज्ज्वलन कर कार्यक्रम का शुभारंभ किया गया।



श्री सुरेश कुमार वैरवा द्वारा स्वागत उद्बोधन

इस अवसर पर आई.बी.सी. कोटा चैप्टर द्वारा वित्तीय वर्ष 2023-24 के दौरान आई.बी.सी. की गतिविधियों व आय-व्यय का ब्योरा प्रस्तुत किया और वर्ष पर्यन्त किये गए कार्यक्रमों की विस्तारपूर्वक जानकारी दी। विगत वर्ष में 1 सेमिनार 5 कमेटी की बैठक व 3 विभिन्न निर्माण कार्य का टेक्निकल अवलोकन का आयोजन करवाया गया। उन्होंने बताया कि तकनीकी विषयों पर आयोजित सेमिनार में अनुभवी विशेषज्ञों द्वारा सुझाया गया तकनीकी उपाय भावी पीढ़ी के इंजीनियरों के लिए मील का पत्थर साबित होगा।



श्री हेमन्त कुमार शर्मा धन्यवाद ज्ञापित करते हुए

कोटा चैप्टर के सचिव एवं पीडब्ल्यूडी के अधिशासी अभियंता श्री हेमन्त कुमार शर्मा ने सभी का आभार जताया। इस अवसर पर बड़ी संख्या में इंजीनियर, संवेदक व कंसल्टेंट मौजूद रहे।

श्री सी.एल. वर्मा ने आई.बी.सी. कोटा चैप्टर के एक्टिविटी की सराहना की। उन्होंने कहा कि कोटा चैप्टर पूरे देश में सक्रिय भूमिका का निर्वहन कर रहा है। विशिष्ट अतिथि श्री धीरेन्द्र माथुर

ने भी अपने विचार रखे। कार्यक्रम में आई.बी.सी. लोकल चैप्टर कोटा के नए सदस्यों का माल्यार्पण व गुलदस्ता भेंट कर स्वागत



विशिष्ट अतिथि श्री धीरेन्द्र माथुर का उद्बोधन

किया गया। आई.बी.सी. कोटा चैप्टर की कार्यकारिणी सदस्यों को भी मुख्य अतिथि द्वारा स्मृति चिन्ह भेंट कर सम्मानित किया गया।

तकनीकी सत्र



श्री अनिल शर्मा सेवानिवृत्त एस.डी.जी. (सी.पी.डब्ल्यू.डी.)

तकनीकी सत्र में "आरसीसी की गुणवत्ता में गिरावट का कारण" विषय पर केन्द्रीय लोक निर्माण विभाग, नई दिल्ली के रिटायर्ड स्पेशल डायरेक्टर जनरल श्री अनिल शर्मा ने मुख्यवक्ता के रूप में प्रजेंटेशन के माध्यम से कहा कि आरसीसी की सामान्य आयु लगभग 75 वर्ष मानी जाती है पर आजकल कई जगहों पर 10 से 20 वर्षों में ही कंक्रीट खराब होते हुए देखी गई है। इसके अनेकों कारण हैं, जिनमें से मुख्य कारण कंक्रीट डिजाइन मिक्स में कमी रह जाने या कंक्रीट में पानी की मात्रा ज्यादा मिलाने या पानी में क्लोराइड या सल्फेट की मात्रा ज्यादा होना हो सकता है। उन्होंने कहा कि फ्लाइऐश, खडिया मिट्टी और चावल के भूसे की राख के कण सीमेंट से भी बारीक होते हैं, ये ओपीसी कंक्रीट में मिलाने से कंक्रीट की लाईफ को बढ़ाते हैं, साथ ही ये सभी पर्यावरण फ्रेंडली भी होते हैं। उन्होंने कहा कि आरसीसी की सबसे

बड़ी दुश्मन सीलन होती है, बार-बार सीलन और फिर सूखने की प्रक्रिया भवन को कमजोर बनाती है।



डॉ. बी.पी. सुनेजा सेवानिवृत्त प्रोफेसर एवं डीन आर.टी.यू.

राजकीय तकनीकी विश्वविद्यालय के प्रोफेसर एवं डीन डॉ. सुनेजा ने प्रजेंटेशन के माध्यम से बहुमंजिला इमारतों पर पड़ने वाले भूकंप के प्रभावों एवं इमारतों को भूकंपरोधी बनाने की आधुनिक तकनीक "स्ट्रक्चरल कंट्रोल" के बारे में जानकारी दी। उन्होंने बताया कि स्ट्रक्चरल कंट्रोल एक ऐसी तकनीक है जिसके प्रयोग से इमारतों पर पड़ने वाले भूकंप जनित लोड के प्रभाव को काफी हद तक कम किया जा सकता है फलस्वरूप इन इमारतों के बीम एवं कॉलम का डिजाइन काफी किफायती रूप से किया जा सकता है। स्ट्रक्चरल कंट्रोल तकनीक मुख्यतः दो प्रकार की होती है, पैसिव कंट्रोल व एक्टिव कंट्रोल। पैसिव कंट्रोल तकनीक का इस्तेमाल इंजीनियरिंग की अन्य शाखाओं जैसे मैकेनिकल, एयरोनॉटिक्स, इलेक्ट्रिकल आदि में सैकड़ों वर्षों से किया जाता रहा है। किन्तु सिविल इंजीनियरिंग में प्रयोग तुलानात्मक रूप से काफी नया है। पैसिव कंट्रोल की बेस आइसोलेशन तकनीक का प्रयोग तो भारत में भी प्रारंभ हो चुका है। इसका प्रभावी रूप से सर्वप्रथम 2003 में भुज हॉस्पिटल के निर्माण में किया गया। इतना ही नहीं आजकल स्ट्रक्चरल कंट्रोल तकनीक का इस्तेमाल बहुमूल्य ऐतिहासिक इमारतों के संरक्षण हेतु भी किया जा रहा है।

राजस्थान तकनीकी विश्वविद्यालय प्रोफेसर डॉ. प्रवीण कुमार अग्रवाल ने अपने प्रजेंटेशन में कहा कि निर्माण सामग्री में प्रयुक्त होने वाली मिट्टी और मिट्टी दोनों के अंधाधुंध इस्तेमाल से प्राकृतिक स्रोत जैसे पहाड़ आदि तेजी से खत्म होते जा रहे हैं, जिनकी वजह से हमारी प्राकृतिक संतुलन बिगड़ रहा है। ऐसे में हमें निर्माण सामग्री के लिए धातु आधारित उद्योगों से निकलने वाले वेस्ट स्लैग का उपयोग मिट्टी की लाल ईंटों की जगह फ्लाइऐश

की ईंटों का इस्तेमाल करना चाहिए। उन्होंने इसके लिए कॉपर स्टील आधारित उद्योगों के स्लैग को भारतीय मानक ब्यूरो के प्रावधानों के अनुरूप इस्तेमाल पर जोर दिया।



डॉ. प्रवीण कुमार अग्रवाल सेवानिवृत्त प्रोफेसर आर.टी.यू. कोटा द्वारा प्रस्तुतिकरण

5वीं वार्षिक आम बैठक 2023-24 के दौरान आई.बी.सी. कोटा चैप्टर के सदस्य/इंजीनियर/ठेकेदार/वास्तुकार की उपस्थिति सराहनीय रही।

33 वां स्थापना दिवस समारोह

निर्माण क्षेत्र में नई खोज, विकास व ज्ञान का संवर्धन कर देश के विकास में योगदान दें, इंजीनियर्स इसी सोच के साथ इंस्टीट्यूट ऑफ इंजीनियर्स भवन में इंडियन बिल्डिंग्स कॉंग्रेस का 33वां स्थापना दिवस समारोह पूर्वक मनाया गया।

इस अवसर पर आयोजित कार्यक्रम में आई.बी.सी. कोटा चैप्टर के चेयरमैन व सार्वजनिक निर्माण विभाग, कोटा के पूर्व अति. मुख्य अभियंता श्री सुरेश कुमार बैरवा; श्री धीरेन्द्र माथुर, पीडब्ल्यूडी के पूर्व मुख्य अभियंता; मुख्य अतिथि, श्री डी.के. क्षत्रिय, अधीक्षण अभियंता, जिला बांरा; विशिष्ट अतिथि, आई.बी.सी. लोकल चैप्टर कोटा के पूर्व चेयरमैन व भूतपूर्व मुख्य अभियंता, सार्वजनिक निर्माण विभाग, श्री पी.के. जैन; इंस्टीट्यूट ऑफ इंजीनियर्स के सचिव श्री डी.के. जैन, मचांसीन रहे।

कार्यक्रम का शुभारंभ माँ सरस्वती व डॉ. विश्वरवैया के चित्र पर माल्यार्पण व दीप प्रज्ज्वलन कर किया गया। इस अवसर पर आई. बी.सी. कोटा चैप्टर के चेयरमैन श्री सुरेश कुमार बैरवा ने अपने स्वागत उद्बोधन में आवहन किया कि आई.बी.सी. के विज्ञान को मिशन के रूप में लेकर उद्देश्यों की प्राप्ति के लिए सभी सदस्य सहयोग प्रदान करें। उन्होंने कहा कि आई.बी.सी. का उद्देश्य देश में

भवन निर्माण क्षेत्र में गुणवत्ता, भवन को आग, भूकम्प एवं प्राकृतिक आपदाओं को सहन करने में, आधुनिक तकनीक साझा करने में अपनी अहम भूमिका का निर्वहन करना है।

कार्यक्रम के मुख्य वक्ता डॉ. शांतिलाल जैन ने “बेसमेंट ए चैलेन्जिंग एकोमोडेशन” विषय पर बेसमेंट निर्माण की आवश्यकता, निर्माण में आने वाली परेशानियों तथा अतिवृष्टि के दौरान बेसमेंट में होने वाली आकस्मिक आपदाओं पर व्याख्यान दिया। मुख्य अतिथि श्री धीरेन्द्र माथुर ने कहा कि वर्तमान में भवन निर्माण में ज्वलंत समस्याओं पर ध्यान देकर उनके निवारण की महती आवश्यकता है। विशिष्ट अतिथि डी.के. क्षत्रिय ने कहा कि आई.बी.सी. भवन निर्माण के क्षेत्र में नई खोज, विकास, ज्ञान का संवर्धन, तकनीकी विचार विमर्श का एक बहुत बड़ा प्लेटफार्म है। पूर्व चेयरमैन श्री पी. के. जैन ने कहा कि स्थानीय स्तर पर तकनीकी विषयों पर मंथन के बाद उसकी निष्कर्ष रिपोर्ट राष्ट्रीय स्तर पर भेजी जाए, साथ ही आई.बी.सी. सदस्य नई तकनीकी पेपर तैयार कर अग्रेषित कराएं।

स्थापना दिवस के अवसर पर श्री राजेन्द्र टंडन, श्री बी.एल. मालव ने गीतों की प्रस्तुति दी। श्री डी. आर. क्षत्रिय ने गजल की प्रस्तुति दी। कार्यक्रम का संचालन आई.बी.सी. के सचिव श्री हेमन्त कुमार शर्मा ने किया। कार्यक्रम के अन्त में कोषाध्यक्ष श्री अशोक सनाढ्य ने आभार जताया।

श्री ओम बिरला, लोकसभा अध्यक्ष का अभिनंदन

माननीय श्री ओम बिरला के दूसरी बार लोकसभा अध्यक्ष बनने पर कोटा का नाम पूरे देश में गौरवान्वित हुआ है। लोकल चैप्टर कोटा द्वारा दिनांक 08.09.2024 (रविवार) को कैम्प कार्यालय कोटा में उनका स्वागत व अभिनंदन किया गया।

कोटा चैप्टर के चेयरमैन एवं पीडब्ल्यूडी के पूर्व अतिरिक्त मुख्य अभियंता श्री सुरेश कुमार बैरवा की अगुवाई में कोटा चैप्टर के कार्यकारिणी सदस्यों ने लोकसभा अध्यक्ष को साफा बांधकर व स्मृति चिन्ह भेंट कर स्वागत अभिनंदन किया।

इस अवसर पर कार्यकारिणी सदस्यों द्वारा लोकसभा अध्यक्ष श्री ओम बिरला को आई.बी.सी. कोटा चैप्टर की गतिविधियों की जानकारी दी गई।

Tripura State Chapter-Agartala

Programmes conducted during 2023-24

Technical Seminars

Topic : Works Contract & Working Problems in Execution

The Public Works Department, Government of Tripura, being the institutional member of IBC requested all

the Engineers of Tripura Engineering Services (TES) to attend the Technical Seminar cum interactive programme on “Works Contract & Working Problems in Execution” in various districts and offices vide Memo No. F. 6 (11)- PWD(GE)/2023 dated 6th July, 2024. Accordingly following District level Technical Seminar cum interactive programme had been organized by the IBC Tripura Chapter in association with Engineers of PWD (R&B), DWS, WR, NH), PMGSY and RD. Shri R.K. Majumder, IAS (Retd.), Former Director, UD Department delivered lectures on the topic as key Note Speaker and Shri C. Debnath, President, IBC addressed the audience as special speaker, besides CE, SE, EE of the wings addressed as special speakers in the respective programmes.

District level Technical Seminar was organized in Dhalai, Sepahijala, Gomati, Khowai, Unokoti, South Tripura districts on 28th June, 8th July, 9th July, 30th July, 2nd August and 14th August, 2024 respectively.

Further to give a wider reach to all engineers, Technical Seminars were arranged at following complexes of West Districts:

- (i) P.N. Complex (Rural Development Department) on 1st August, 2024 in the Conference Hall of Chief Engineer, RD, Tripura in association with Engineers of Rural Development Department of West District.
- (ii) On 6th August, 2024 in the Conference Hall No. 2 of TTAADC Head Qtr, Khumulwng, Tripura in association with Engineers of PWD, TTAADC. Shri D.M. Jamatia, Chief Legal Advisor of TTAADC had graced the seminar as Chief Guest.
- (iii) THCB & NH on 9th August, 2024 in the Conference Hall of IEL, P.N. Complex, Tripura in association with Engineers of NH, and TH & CB.
- (iv) On 12th August, 2024 in the Conference Hall of UD Bhawan, Tripura in association with Engineers of UD Department, Tripura Jal Board, NHIDCL and Agartala Smart City.

Topic : Works Contract & Arbitration

Technical Seminar was held jointly with PWD (WR), Agartala on 20th February, 2024 on “Works Contract & Arbitration”.

Topic : Retrofitting of Structure

Technical Seminar was held jointly with Tripura Institute of Technology, Narshinghar, Agartala on 26th February, 2024 on “Retrofitting of Structure”.

Topic : Disaster Management

Technical Seminar was held jointly with Techno College of Engineering, Agartala on 27th February, 2024 on “Disaster Management” with TTAADC Polytechnic Institute, Khumulwug, Tripura on 7th March, 2024.

Speaker of the Seminars was Shri R.K. Majumder. IAS (Retd.).

Annual General Meeting 2024

Indian Buildings Congress, Tripura State Chapter organized its 18th Annual General Meeting on 31st August, 2024 in Recreation Hall, Netaji Chowmohani, PWD complex, Agartala, Tripura.

The Managing Committee of IBC Tripura State Chapter for the year 2024-26 was constituted with Shri Shyamlal Bhaumik, CE, PWD, (DWS & W.R.), as Chairman; Shri Biswajit Das, EE, PWD as Vice Chairman; Shri Sibasish Bhattacharyya, Director (Retd.), JSS as Hony. Secretary; Shri Nirmal Debnath, JE, PWD as Treasurer.

Engineers Day

In the memory of Bharat Ratna Sir, Mokshagundam Visvesvaraya, the IBC Tripura Chapter celebrated 57th Engineers’ Day with great enthusiasm and in a befitting manner in collaboration with Tripura State Government on 15th September, 2024. The members of IBC Tripura Chapter garlanded his photograph kept at PWD Complex, Netaji Complex, Agartala, Tripura followed by following short programmes:-

- Garlanding to the Statue of Bharat Ratna Sir Mokshagundam Visvesvaraya in O/o the Chief Engineer (Water Resources), Vivesvaraya Complex, Kunjavan, Agartla by Honourable Chief Secretary & Principal Secretary, Government of Tripura followed by a short programme at 10.30 AM in the morning.
- Blood Donation Camp inaugurated by Honourable Chief Minister Government of Tripura at Institution of Engineers (India), Tripura State Chapter, Gurkhabasti, Pandit Nehru Complex, Agartala at 11:00 AM.
- Inaugural Programme followed by Seminar at Pragy Bhavan, Pandit Nehru Complex, Gurkabasti, Agartala. Inaugural Programme was also attended by Honourable Chief Minister, Chief Secretary, Principal Secretary and Secretary for Rural Development, Secretary Education Department, Government of Tripura.
- Closing Ceremony followed by felicitation of

“Engineer of the year” 2024 award conferred to Shri Madhusudan Roy, Immediate Past Chairman, IBC Tripura Chapter & Chief Engineer (Retd.). ONGC Ltd. Closing Ceremony attended by Honorable Forest Minister, Government of Tripura & Director, Higher Education, Government of Tripura.

The programme was concluded by National Anthem.

Managing Committee Meeting

The Managing Committee Meeting of Tripura State Chapter was held on 8th September, 2024 at PWD Complex, Netaji Chowmuhani, Agartala, West Tripura. Shri Shyamal Bhaumik, Chief Engineer, DWS and WR presided over the meeting. The following decisions were taken in the meeting:-

1. It was decided to request ordinary members whose membership has been ceased to renew their IBC membership by paying required life compounding fee to HQs.
2. It was decided to arrange Technical Talk on practical problems related to work execution and find out the way forward and takeaways in collaboration with other organizations to share knowledge, experience and exchange information.
3. At present there are three Institutional Members namely RDD, UDD & PWD (Buildings), Govt. of Tripura. Effort should be made to increase the number of Institutional Member by approaching engineers of the State.
4. It was decided that one present member should enroll minimum one new member.
5. IBC Tripura Chapter should concentrate on arranging more number of District Level Programmes and Technical Institutional Level Programmes to disseminate latest Technological advancements & amendments, knowledge sharing, experience sharing and case studies.
6. As directed by IBC HQ New Delhi, IBC Programme should be celebrated at all IBC Chapters as circulated vide no. Ref.: 04/IBC/TC/2024-25 dated 14/09/2024.

33rd Foundation Day

The IBC Tripura State Chapter celebrated 33rd Foundation Day of IBC at PWD Conference Hall, PWD Complex, Netaji Chowmuhoni, Agartala in a befitting manner on 1st September, 2024. The programme was started with Foundation Day Cake cutting by

the Chairman, IBC Tripura Chapter. Shri Shyamlal Bhuaumik, Chief Engineer, DWS & WR, Govt. of Tripura. The programme was inaugurated by lighting of ceremonial lamp by Shri Ranjit Kumar Majumder, IAS (Retd.), Executive Member, IBC and Retd. Director, UDD, Govt. of Tripura. IBC Geet was played as a mark of respect and honour to IBC. Shri Majumder gave a brief history, significance and importance of IBC.

Shri Biswajit Das, Vice Chairman, IBC Tripura Chapter and Governing Council Member, IBC, New Delhi also delivered speech. Past Chairmen and Past Hony. Secretaries were felicitated by offering Uttariya & Flower Bouquet as a mark of respect to them. Family members of IBC, Tripura Chapter presented a colourful cultural programme.

At end of the programme, Presidential Address was delivered by Chairman, IBC Tripura Chapter followed by Vote of Thanks. The programme was concluded by National Anthem observed with dignity by all present.

Bihar State Chapter-Patna

33rd Foundation Day

33rd Foundation Day of IBC was celebrated on the 1st September, 2024 in Adhiveshan Bhawan, Patna, Bihar in the presence of Shri Sudhanshu Shekhar Rai Engineer-in-Chief, BCD Govt of Bihar, Shri D.K. Baxi, Honorary



33rd Foundation Day is being celebrated

Secretary, Shri Rambabu Prasad SE and Shri Vinod Chaudhary Treasurer, Shri Tarini Das CGM BSBCCCL with great zeal and enthusiasm.

Local IBC Chapter- Surat

Managing Committee Meeting

The New Management Committee of IBC Surat Chapter was held on 17th August, 2024 at ARC, SVNIT, Surat, Gujarat. The New Management Committee of IBC Surat Chapter was constituted with Dr. R. J. Pandya, Ex. Deputy Commissioner, SMC Surat and Advisor

as Chairman; Shri P.M. Chaudhary, Superintending Engineer, R&B, Surat as Vice President; Shri Vishal Raiyani, CEO, Mattest Engineering Services, Surat as Secretary and Dr. D.A. Patel, Professor, DoCE, SVNIT, Surat as Treasurer.

Gujarat State Chapter-Gandhinagar

Managing Committee Meeting

The Managing Committee Meeting of IBC Gujarat State Chapter was held on 29th Aug., 2024 at HQs Chief Engineer Airforce, Vayushaktinagar, Gandhinagar.

As per earlier decision after retirement of Shri Mahendra Pal, Chief Engineer, MES on 30th April 2024 present Chief Engineer Sh Harish Chandra IDSE Chief Engineer MES HQs Chief Engineer Airforce, Gandhinagar will be the Chairman of the Gandhinagar Chapter. After meeting on the occasion of the 33rd Foundation Day of IBC i.e. 01st Sept., 2024 Shri Harish Chandra, IDSE, Chief Engineer Airforce assumed the Charge of Chairman, Indian Buildings Congress, Gujarat State Chapter.

The Managing Committee Meeting of IBC Gujarat State Chapter was constituted under the Chairmanship of Shri Harish Chandra, IDSE, Chief Engineer MES, HQs Chief Engineer Airforce Gandhinagar; Dr. G. P. Vadodariya, Principal Govt Engineering College, Bhavnagar, Dean GTU as Vice Chairman; Shri Girishkumar H Shah, Consulting Engineer (Civil, Str. & Valuation) Prahladnagar, Ahmedabad as Secretary; Col Manish Dhaka, VSM, Commander Works Engineer(CWE) Airforce, Chiloda, Vayushaktinagar, Gandhinagar as Treasurer.

Telangana State Chapter – Hyderabad

Shri C. Debnath, IBC President met with Shri Rajeshwar Reddy, Chief Engineer, R&B, Building, Telangana & other members of IBC, Telangana State Chapter in the E-in-C office, R&B, Building, at Errummanjil, Hyderabad on 13th September, 2024. Issues pertaining to IBC were discussed & subsequently a letter was sent to CE, R&B, mentioning the following:

1. R&B, Building, Telangana will provide a hall in the 1st floor of E in C, R&B, Building Complex at Errummanjil, Hyderabad for the purpose of IBC office alongwith library.
2. Though it was proposed to CE, R&B, Telangana to host Governing Council meeting of IBC in Dec., 2024 with the support of IBC, Telangana chapter but CE & others proposed to host the Mid term session alongwith GC meeting in March, 2025 at Hyderabad.



Meeting in Progress

3. The arrear of Institutional Membership fee of R&B, Telangana is Rs.1.50 lac. But the CE proposed to waive the total dues & they will take life membership of Institutional membership by paying L.M. fee. The CE, R&B, Building will send the proposal of ex officio council membership of CE, R&B, Building very soon.
4. As the AGM of Telangana chapter could not be conducted in time within June, 2024 & extended time August 2024, as per guide line they will conduct AGM in Oct, 2024 & will elect new Management committee.

This is a good beginning of IBC, Telangana. Many thanks to CE, Shri Rajeshwar Reddy & team IBC, Telangana.

Chhattisgarh State Chapter – Raipur

Annual General Meeting

Before the start of Annual General Meeting held at Golden Tower, NIT, Raipur campus, Raipur Shri Salil Rai Shrivastava extended a warm welcome to all the members of the Chhattisgarh State Chapter. He thanked all office bearers, past chairmen, for their participation, support and valuable contribution towards upliftment of Indian Buildings Congress, Chhattisgarh State Centre (CSC), Raipur and also opening of new Chapter as Durg Bhilai IBC Chapter. He also presented Audited balance sheet of the center which was approved by all the members.

Thereafter election was conducted in which Dr. Rajesh Tamrakar proposed the name of Dr. Debasis Sanyal, Professor and Dean of NIT, Raipur as Chairman, IBC, CSC for the year 2024 – 26. Proposal was unanimously approved. The following Managing Committee members were also unanimously declared as elected on the recommendation of members.

Dr. Debasis Sanyal, Professor and Dean of NIT, Raipur as Chairman; Shri Rajesh B. Thakare, M. D., Thakare



Meeting in Progress

Consultancy Services Pvt Ltd.; Shri Manoj Dewangan, Dewangan Associates as Vice Chairman; Shri Anil Tiwari as Hon'ble Secretary; Dr. Himanshu Poptani as Joint Secretary; Shri Dipak Shirke as Treasurer.

Dr. Debasis Sanyal, Chairman of IBC CSC, thanked all present for the opportunity given to him to serve the institution of the IBC CSC, as Chairman, and accepted the same with due humbleness. To enhance the activities of the chapter, he requested and emphasized upon all the members of IBC to enhance the institutional and life membership. He appreciated the efforts of Shri Salil Rai Shrivastava, Immediate Past Chairman for promoting the activities of IBC in Chhattisgarh in spite of his responsibilities under Chhattisgarh Government.

Seminar and exhibition on Trending World of Architecture and Design

An organization ACETECH organized with the support of Indian Buildings Congress Chhattisgarh State Chapter, three days Seminar and exhibition between 26 – 28 July, 2024 on the topic 'Trending World of Architecture and Design' at Babylon International Hotel, Royal Court, Raipur. Seminar was attended by Office bearers of Chhattisgarh State Chapter.



The organizers facilitated Shri Salil Rai Shrivastava, Shri S. K. Agrawal, Shri Rajesh B. Thakare, Shri Anil Tiwari, Dr. Rajesh Tamrakar and Shri Shubhrakant Tamrakar by presenting mementoes.

With best Compliments from
INDIAN BUILDINGS CONGRESS
TRIPURA CHAPTER



PWD COMPLEX,NETAJI CHOWMUHANI,
AGARTALA--799001.

With Best Compliments from



CPWD

IBC Welcomes the following New Individual & Student Members enrolled during to 25/04/2024 to 17/08/2024

Individual Members:

S.No.	M. No.	Name	Qualification	Designation	Department	City	State
1.	ML-9912	Shri Gangadharappa Hanumantharaya	B.E. (Civil)	Executiv Engineer & Sr. Manager (Civil)	CPWD	TIRUPATI	Andhra Pradesh
2.	ML-9913	Shri Tathagat Pattnaik	B.Tech. (Civil)	Civil Engineer (Consultant)	Shree Ram Engineering Services	CUTTACK	Odisha
3.	ML-9914	Shri Shyam Lal Bhaumik	B.E. (Civil)	Chief Engineer	Tripura PWD	AGARTALA	Tripura
4.	ML-9915	Shri Ravindra Kumar	Ph.D Engg. M.E (Civil), B.Sc (Civil Engg.)	Chief Scientist & Head ILT	CRRRI	NEW DELHI	Delhi
5.	OM-9916	Shri Nirbhay Sachan	B.Tech.	Assistant Engineer	Bihar BCD	PATNA	Bihar
6.	ML-9917	Shri Narendra Singh Chaudhary	B.E. (Civil)	Executive Engineer	Rajasthan PWD	KOTA	Rajasthan
7.	ML-9918	Shri Anirban Datta	Section A & B in Mechanical Engg.	Founder & CEO	PIMECAS Engineering Solutions	North 24 Parganas	West Bengal
8.	ML-9919	Shri Pradeep Mitra Manjunath	B.E., M.B.A, K.E.S	Engineer-in-Chief	Karnataka PWD	BANGALORE	Karnataka
9.	ML-9920	ShriJoydip Nath	Diploma in Civil Engg.	Assistant Engineer	Tripura PWD (R&B)	AGARTALA	Tripura (West)
10.	ML-9921	Shri Om Prakash Malviya	Graduate	"AA" Class Contractor	M/s Malviya Enterprises	KOTA	Rajasthan
11.	ML-9922	Ms. Perna Jagoori	B.Tech (Civil Engg.)	Assistant Engineer	Uttarakhand PWD	DEHRADUN	Uttarakhand
12.	ML-9923	Shri Chiranjib Datta	B.E. (Civil)	Former Executive Engineer	Tripura PWD		Tripura (West)
13.	ML-9924	Shri Dhiraj Bansal	B.E. (Civil)	Dy. General Manager	Shree Cement Limited	RAIPUR	Chhattisgarh
14.	ML-9925	ShriSubrataDatta	B.E. (Civil)	Chartered Engineer & Valuer	Arohan Civil Engg. Consultancy	AGARTALA	Tripura (West)
15.	ML-9926	Shri Devender Singh	B.Tech.(Civil), DCE, DRE, DMMT&C	Jt. Director (Design)	MES	PUNE	Maharashtra
16.	ML-9927	Shri Sourabh Jindal	Master of Urban & Rural Plg.	Assistant Professor	NICMAR	NEW DELHI	Delhi
17.	ML-9928	Shri Udit Negi	M.Tech.(Strct.)	CWE	MES	C/o 99APO	APO
18.	ML-9929	Lt. Col. Akshay Bhatnagar	B.E. Computer Science		Indian Army	PANCHKULA	Haryana
19.	ML-9930	Lt. Col. Ulapu Sandhya Lakshmi	B.E. (Elect.& Electronics Engg.)		Indian Army		Chandigarh
20.	ML-9931	Ms. Sudeshna Bandyopadhyay	B.Tech. (Civil Engg.)	Sr. Project Manager	INFOSYS	NEW DELHI	Delhi
21.	ML-9932	Shri Shivendra Nath	B.E., M.E., MBA	Chairman-cum-Managing Director	Engineering Projects (India) Ltd.	NEW DELHI	Delhi
22.	ML-9933	Shri Sunil Dahiya	B.E. (Civil)	Director (Projects)	Engineering Projects (India) Ltd.	GURGAON	Haryana
23.	ML-9934	Shri Rajib Majumder	M.E. (PH), LL.B	Addl. Chief Engineer	PWD (DWS), Tripura	AGARTALA	Tripura
24.	ML-9935	Shri Manohar Debnath	B.E.	Executive Engineer	PWD (R&B), Tripura	AGARTALA	Tripura
25.	ML-9936	Dr. Indukuri Satyanarayana Raju	B.Tech. (Civil), M.Tech.(Strct.), Ph.D	Former Chief Engineer	Irrigation Department	HYDERABAD	Telangana
26.	ML-9937	Shri Brijesh kumar Devjibhai Parasiya	Master of Technology (Civil Strct.)	Structural Engineer		NAVI MUMBAI	Maharashtra

27.	ML-9938	Shri Mayank Kumar Tilak	B.E. (Civil), M.E. (Strct. Engg.)	ADG (Border)	CPWD	NEW DELHI	Delhi
28.	ML-9939	Shri Masarrat Noor Khan	B.Sc. Engg. (Civil)	Former Chief Engineer	UP PWD	LUCKNOW	Uttar Pradesh
29.	ML-9940	Shri Ashok Chettri	M.Tech.	Superintending Engineer	Buildings & Housing Department		Sikkim
30.	ML-9941	Ms. Anuja Sharma	B.Arch., M.Arch.	Sr. Architect	ICT Pvt. Ltd.	NEW DELHI	Delhi
31.	ML-9942	Shri Swapan Bikash Kar	B.E. (Civil)	Executive Engineer	PWD (WR)	AGARTALA	Tripura
32.	ML-9943	Dr. Syed Zafar Shahid Tabish	Ph.D	Former ADG	CPWD	NEW DELHI	Delhi
33.	ML-9944	Ms. Mitu Mathur	M.Sc Architecture & Urban Design	Director	Gian P Mathur & Associates Pvt. Ltd.	NEW DELHI	Delhi
34.	ML-9945	Shri Avinash Motiram Gulhane	B.E. (Civil), M.Tech. (Geo), MBA	Deputy Engineer	Maharashtra PWD	NAGPUR	Maharashtra
35.	ML-9946	Shri Ashoka Kumar Singh	M.E. (Soil Dynamics)	Former Engineer-in-Chief	Irrigation Department	LUCKNOW	Uttar Pradesh
36.	ML-9947	Shri Braj Bahadur Shrivastav	B.Sc (Engg.), M.E. (Hons.)	Former Chief Engineer	UP PWD	LUCKNOW	Uttar Pradesh
37.	ML-9948	Shri V.B. Singh	B.E., LL.B	Past Vice President	The Institution of Engineers (India)	LUCKNOW	Uttar Pradesh
38.	ML-9949	Shri Basanta Kumar Misra	B.E. (Civil), M.E. (WRD)	Former Superintending Engineer	Water Resources Depatt.	BHUBANESWAR	Odisha
39.	ML-9950	Shri Ram Nath Singh	M.E.	Chief Engineer	UP, PWD	LUCKNOW	Uttar Pradesh
40.	ML-9951	Shri Ajit Kumar Debbarma	B.E. (Civil Engg.)	TES Gr-II, S.E.	PWD (DWS)	AGARTALA	Tripura
41.	ML-9952	Shri Deevsh Kumar Mishra	M.Tech.	Civil Engineer	Shri Shnkrachrya College Engg. & Technology	BHILAI	Chhattisgarh
42.	ML-9953	Shri Akash Choudhary	B. Tech. (Civil)	Assistant Engineer	Rajasthan PWD	KOTA	Rajasthan

Student Members:

S.No.	M. No.	Name	Qualification	Designation	Department	City	State
1	SM-80347	Ms. Vaidehi Pareek	Pursuing B.Arch.	Student	Aayojan School of Architecture	JAIPUR	Rajasthan
2	SM-80348	Shri Pratik Sen	Pursuing Ph.D Scholar	Student	NIT Agartala	AGARTALA	Tripura (West)

Corrigendum

On Page No. -13, of Built Environment Published for the period of Jan-June, 2024 under the Quote by Dr. Rajendra Prasad, the First President of India, the dates mentioned may be read as December 3, 1884 – February 28, 1963.

Inconvenience caused is sincerely regretted.

From Editor-in-Chief Desk

It is anticipated that by 2050 urban occupancy in India would be nearly 56% of India's population. This is bound to present multiple challenges to the Professionals, Architects, and Engineers Faculty. In the times ahead, it would be imperative for the Urban Planning to harness innovation, foster inclusive development and adopt sustainable practices, thereby creating cities which are livable, vibrant and equitable. No doubt the cities of today are struggling with the multiple problems such as traffic management, pollution of air, water and Waste Management.

One of the major issue confronting the Urban Planning and has knocked on our doors, is the Climate Change phenomenon. This has added to the strain on the built environment and the related infrastructure, including water, energy, sanitation and transportation. Need of the hour is to evolve comprehensive and effective policies to mitigate and increase cities resilience towards climate change. It is important for the Built professionals to integrate green spaces, implement climate responsive infrastructure and adopt eco-friendly technologies, so as to promote environmental sustainability.

Series of initiatives have been taken by Urban Local Bodies, Development Authorities⁴ under the Govt. of India's scheme of Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Swachh Bharat Mission and Smart Cities Mission. Notwithstanding Govt. of India's initiatives in this regard it is equally important for citizens to contribute their bit in tackling the various issues facing the cities especially by segregation of waste for efficient Waste Management, use of mass transportation system, adopting of Rain Water Harvesting System on large scale and by using energy efficient electrical and electronics equipments.

The challenges posed by multiple factors on Urban Planning and Development has added new dimension to the responsibility of all Stakeholders to ensure that Urban areas evolve in a manner that not only meet the needs of present and future generations but also cater to the expectations of various sections of the Society.



(K.B. Rajoria)



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