

14th International Exhibition and Conference on Smart & Sustainable City Solutions



CIDCO Exhibition Centre, Navi Mumbai, Maharashtra, India



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Supported by Government of India

Host State - Government of Maharashtra

Partner State
Government of Rajasthan



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Feature Country - Singapore

Host City - Navi Mumbai



Municipalika 2017 highlights innovative approach towards Smart & Sustainable City Solutions



At a time when India's demographic growth is showing annual increase of 20 million, and more than 50% of it being in urban areas, the country has been witnessing focused initiatives for development of planned, smart, safe, secure, and sustainable cities – through the various urban and housing missions: 100 Smart Cities, 500 Amrut Cities, Swachh Bharat Mission, and Housing for All with 20 Million Urban Houses by 2022.

Maharashtra has set an example emerging as one of the top states especially when it comes to implementing such urbanisation projects and embracing the Indian Government's ambitious 'Smart Cities Mission' along with the Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Pradhan Mantri Awas Yojana (PMAY). The best example of its success is Navi Mumbai which has become the second-largest settlement city within MMR in terms of population share. In the last decade, Navi Mumbai has grown at an incredible speed of 88%, which is the highest growth rate in the region. This provided just the right setting for Municipalika 2017, which was held at the sprawling CIDCO Exhibition and Convention Centre in Navi Mumbai from 18th to 20th May.

Municipalika 2017 which was the 14th

edition of the exhibition and conference had the participation over 1600 delegates including over 150 Mayors and Chairpersons, Municipal Commissioners, Secretaries from 25 states and 10 countries and 300 cities comprising of governing leaderships, Ministers, Secretaries, Mayors, Commissioners, Urban Planners, Architects, Engineers, professionals, technology providers, financial specialists, ICT and other stakeholders including civil society groups.

The three-day exhibition and conference received encouragement and support from M Venkaiah Naidu, Minister of Urban Development, Housing & Urban Poverty Alleviation and Information

and Broadcasting, Government of India; Devendra Fadnavis, Chief Minister, Government of Maharashtra and Prakash Mehta, Minister of Housing, Government of Maharashtra.

A packed Inaugural Programme was graced by Maya Singh, Hon'ble Minister of Urban Development and Housing, Government of Madhya Pradesh; R Roshan Baig, Hon'ble Minister of Urban Development and Haj, Government of Karnataka; Durga Shanker Mishra, Additional Secretary, Ministry of Urban Development, Government of India; H. E. Nadir Patel, High Commissioner of Canada in India; Koh Lin Ji, Group Director, International Development Group Building



and Construction Authority, Singapore; Pawan Arora, Director of Local Bodies and Joint Secretary, Government of Rajasthan; Sudhakar Sambhaji Sonawane, Mayor, Navi Mumbai Municipal Corporation; V Suresh, Advisor, Good Governance India Foundation, Former CMD, HUDCO and Sanjiv Agarwal, Founder Chairman, Good Governance India Foundation, Editor & Publisher, Urban News Digest.

In her inaugural address Maya Singh, Hon'ble Minister of Urban Development and Housing, Government of Madhya Pradesh praised the Swachh Bharat initiative by the Government of Madhya Pradesh which has been very supportive and has been able to come up with new policies. She further highlighted on the many new programmes that are being initiated in Indore, Bhopal and Jabalpur including waste to energy initiatives, Swachh Bharat Mission and river rejuvenation works. Commenting on the exhibition she praised Municipalika as a good platform to showcase, network and strengthen our vision towards smart cities and sustainable cities.

In regards to the factors that transform a city into a smart city R Roshan Baig, Hon'ble Minister of Urban Development and Haj, Government of Karnataka stated that it is only when issues such as slums and open defecation have become negligible can a city be truly called a smart city and to get to that position spreading awareness and changing the way people think is a must. He also referred to the need for creating new satellite townships for decongesting big cities and referred to State Government plans for creating new township in Kolar on the lands already available from erstwhile Kolar Gold Field.

Durga Shanker Mishra, Additional Secretary, Ministry of Urban Development,



Government of India praised the various initiatives organised by the Government of India such as 100 Smart Cities, 500 AMRUT Cities, Swachh Bharat Mission, Housing for all under PMAY and HRIDAY and addressed the four major pillars necessary for the development of a city which are Institutional or Governance, Social, Economic as well as Physical.

During his partner country address H. E. Nadir Patel, High Commissioner of Canada in India spoke on Canada's infrastructure expertise and potential to contribute to India's urban development plans. He further highlighted the fact that Canada has much to offer that meet the requirements here in India with respect to urban development and briefed the audience about the how Canada had prepared a variety of sessions and speakers to share information regarding smart cities and urban development.

Koh Lin Ji, Group Director, International Development Group Building

and Construction Authority, Singapore applauded India's efforts in rapid urbanisation and praised Municipalika for selecting a theme like 'Smart and Sustainable Cities 2017' which is so appropriate. He further highlighted the various initiatives related to urban development that is currently being undertaken in Singapore and what Singapore can offer India when it comes to sustainable urban development.

Speaking of transformation and further progress in Urban development in Rajasthan was Pawan Arora, Director of Local Bodies and Joint Secretary, Government of Rajasthan who further stated that regardless of major problems that cities may have, turning those challenges into opportunities and taking it forward in a large way is always the correct approach. Additionally, he praised Municipalika for providing a great platform to meet stakeholders from different facets of urban development.

Speaking about various facts about the host city of Municipalika 2017, Navi Mumbai was Sudhakar Sambhaji Sonawane, Mayor, Navi Mumbai Municipal Corporation. He highlighted key facts about Navi Mumbai which has been developed as a well-planned satellite town and further stated that how important it is for cities to be provided with newer technologies for more balanced development and growth.

The inaugural session was coordinated by V Suresh, Advisor, Good Governance India Foundation and former CMD, HUDCO. He briefed the audience about Municipalika 2017 stating that it is one of the unique events where all concerned city development and management agencies meet with over a thousand delegates from 300 cities, representing the ministers, mayors, municipal commissioners, city planners, architects, engineers and service providers to discuss the issues and





challenges faced by the citizens.

Also, Sanjiv Agarwal, Founder Chairman, Good Governance India Foundation, Editor & Publisher, Urban News Digest extended special thanks to the gracious host state Maharashtra and Government of India for supporting this exhibition and conference. Additionally, he thanked the Partner Countries, Canada and Singapore, for their presence in the show and for spreading their knowledge with the urban stakeholders of India.

The inauguration concluded with the release of the latest edition of the publication Urban News Digest and the Show Directory. Dr. Prem C Jain, Chairman of Indian Green Building Council, presented the three IGBC publications for release on IGBC Green Ratings for Existing Cities and Affordable Housing as well as IGBC guidance publication for model green building regulations for inclusion in State/City building regulations, development control rules.

Besides a robust Exhibition segment, Municipalika conducted 15 thematic sessions, 5 technical sessions, a Vision Address, a panel discussion and an Open House Citizen's interface. Municipalika 2017 saw a gathering of over 200 speakers deliberating on various specialised urban topics in India's biggest knowledge sharing platform.

Canada, which had been a Partner Country in the last edition of Municipalika, signed up as the Partner Country for this chapter of Municipalika as well. In addition, to support from Global Affairs Canada, this year's delegation to Municipalika is supported by the Province of Ontario as well as over 20 Canadian companies/organisations.

Canada and Singapore as Partner

Countries brought forth their rich global experience of decades through the exhibition display and conference sessions in creating sustainable and vibrant smart cities with the best practices in planning, design, execution and good governance of cities.

Urban, municipal and housing departments of states and UTs across the country; as well as foreign missions and trade representatives of countries active in the smart cities sector and allied areas like water, waste, energy etc; along with leading global technology providers from the private sector participated in the three-day exhibition and conference.

The conference enabled participation of over 1,600 delegates from 300 cities in India and abroad. The Government of Maharashtra was the host state for the exhibition and conference which was also

supported by the Government of India along with its ministries of Urban Development, New and Renewable Energy, Electronics and Information Technology, Home Affairs Office of the Fire Adviser and Steel. Rajasthan Government, which is one of the most proactive for substantial urban and housing initiatives, was the Partner State, participating through the Department of Local Self Government.

The Municipalika exhibition and conference 2017 is one of the biggest events in the country on city solutions, with over 170 exhibitors showcasing technologies, equipment, products, software and solutions for Smart and Sustainable Cities, covering all facets of urban infrastructure development and housing and building construction activities. Over 5,000 delegates and visitors benefited from the useful displays in the exhibition.

Day one of Municipalika 2017 saw a session on 'Vision Address: Future Cities' delivered by three eminent personalities. The speakers provided their Vision for Future Cities, with each guest highlighting a different aspect that the cities would need to address in order to become an ideal Future City.

The guest speakers included Koh Lin Ji, Group Director, International Development Group, Building Construction Authority Singapore; Raghu Raman, Group President, Reliance Industries Ltd and Rajneesh Chopra, Global Head - Business Development, VA Tech Wabag.

The exhibition reached its peak day two when Mayors, City Managers, Social Activists, NGO and subject experts of participative cities came together to share their first-hand experience on various





civic issues in an Open House Citizen Interface. The speakers for this session included Suraj Nandakumar, Co-Founder, Recity Network Pvt Ltd; Dr. Sujata S Govada, Founder & Managing Director, UDP International; PK Das, PK Das Associates; Mala Singh, Founder and Chairperson, PEC Greening India; Ritu Verma, Founder Director, urban EXPLORERS; Shakti Singh Chaudhary, Mayor, Gangtok Municipal Corporation; S Neerada, Educationist; Preeti Singh, 27 Art Street; Mamta Gupta, Mayor, Rewa M.P; Harita V Kumar, Director, DUA Kerala; S Sivasubramanian, Municipal Commissioner, Tirunelveli City Municipal Corporation; Chandrika Chandrakar, Mayor, Durg Municipal Corporation; Pramod Dube, Mayor, Bhilai Municipal Corporation; Kishore Rai, Mayor, Bilaspur Municipal Corporation; Col. Sreedharan, Chairman, Covai Property Centre; Rajani Pantham Seshasai, Mayor, Rajahmundry Municipal Corporation.

Day three also saw an interesting Panel Discussion on Affordable Housing Challenges and Way Forward, moderated by Faye D'souza, Executive Editor, Mirror Now. The Panelists were A Shankar, National Director, Jones Lang Lasalle; Jayashree Kurup, Editorial Head, Magic Bricks; Nakshatra Roy, Head BD and Marketing, TATA Housing; Aarti Harbhajanka, Associate Director, KPMG; V Suresh, Advisor, Good Governance India Foundation, Former, CMD HUDCO and Sanjiv Agarwal, Founder and Trustee, Good Governance India Foundation.

Apart from these, technical sessions were conducted simultaneously in the collocated show CAPEX over two days. These sessions covered a variety of subjects such as Innovative Building Materials and Technologies for Building &

Infrastructure applications; Tecno-legal regime for acceptance of new products & approval systems including Standards, Testing and Certification; Green Building Technologies & Products; Modern Construction Systems, Practices and Technologies; Water Supply & Sanitation Products.

Municipalika 2017 culminated with the valedictory address by Dr. Sudhir Krishna, Former Secretary Urban Development, Government of India. According to him, cities makes lives convenient for the dwellers. Statistics shown that countries/states that are more urbanised have higher per capita income which means better employment opportunities and better facilities, thus it's crucial that more focus be put on making cities a better place to live and a better place to invest. To do that it is essential to organise a proper framework of sustainability or in other words sustainable development. He further added that to achieve this, the five dimensions of sustainability which are social sustainability, financial sustainability, environmental sustainability, managerial sustainability and lastly technological sustainability

must be kept in check.

While presenting the Event report along with observations of highlights along with broad areas of recommendations to the delegates, in the valedictory session, V Suresh, the convener of Municipalika and Capex and Advisor, Good Governance India Foundation noted that the agenda for creating clean Cities with total sanitation as part of Swachh Bharat Abhiyan was considered the most important intervention for changing the landscape of the country. He further highlighted the fact that Community toilets with socially, culturally acceptable, appropriate, affordable and indigenous options need to be encouraged and there is a need for making Toilets for all linked with Water for all as an integrated approach.

Additionally in regards to promoting 100 Smart Cities (upgradation and retrofitting of brownfield cities including cluster of white field cities and creation of greenfield cities) and 500 AMRUT Cities, an integrated and holistic approach is needed to bring in the smart elements in all infrastructure and built environment components as well as in the operation, management and service delivery for the betterment of city development.

Sanjiv Agarwal, Founder of Good Governance India Foundation, extended his thanks to the exhibitors and speakers for their participation in Municipalika 2017. He welcomed feedbacks from all the partners to create a bigger and better show in the future.

This was followed by an Award Ceremony where G Ibrahim, Executive Director, Good Governance India Foundation declared awards to the top exhibitors for their achievements during the three day show, which was presented to the winners by Dr. Sudhir Krishna. With this the 14th MUNICIPALIKA - CAPEX event concluded. ■





I am glad to know that Municipalika 2017-14th International Conference and Exhibition on Smart and Sustainable City Solutions is being organised at Navi Mumbai from 18-20 May, 2017 by the Good Governance India Foundation, with the support of Government of India and Government of Maharashtra. Keeping this in view, our government, under the visionary leadership of the Prime Minister, has been giving priority attention to these key areas to make cities self sufficient, sustainable, smart and vibrant through Swachh Bharat Mission, 100 Smart Cities Mission, Housing for all by 2022, 500 AMRUT Cities and HRIDAY. On the housing front, the enactment of RERA and major reduction in interest rates for different segments of affordable housing will give a major fillip. I do hope that delegates from all cities representing urban stakeholders, policy makers and city managers across the country attending this conference will richly contribute to and benefit from the conference deliberations and exhibition segments. I convey my greetings and good wishes to all the delegates of Municipalika 2017. I look forward to receiving useful ideas and innovative concepts emerging out of Municipalika 2017.

M. Venkaiah Naidu

Minister of Urban Development, Housing & Urban Poverty Alleviation and Information and Broadcasting
Government of India



I am happy to know that the 14th edition of Municipalika-India's recognised tradeshow and conference focused on Smart, Clean and Sustainable Cities is being organised in Navi Mumbai. Maharashtra is the most urbanised state of the country. I hope that Municipalika will offer a unique opportunity to its participants to showcase and source technologies, innovations, products and services, further to State Government's mission of affordable housing and smart sustainable, cleaner and greener cities. I extend my warm wishes to the organisers and all participants and wish the conference a grand success.

Devendra Fadnis

Chief Minister
Government of Maharashtra



I am happy to note that the Municipalika and the collocated CAPEX International Conference and Exhibition is being held at Navi Mumbai, CIDCO Exhibition Centre from 18-20 May, 2017. As the host state for the event, I welcome all the delegates, visitors, participants and all stake holders to this mega event. Maharashtra is the first state to implement Real Estate Regulatory Act which will be for the consumer interest and maintain transparency in property transaction. We are committed to the housing for all scheme to be implemented in 142 cities. I am been given to understand that at the conference there is a special session on Inclusive & Human Cities-Pradhan Mantri Awas Yojna (PMAY) and panel discussion on affordable housing. The exhibition will have all innovative building products, technologies and services for building applications. I extend my best wishes to the organisers and all participants and wish Municipalika 2017 a grand success.

Prakash Mehta

Minister of Housing
Government Maharashtra



I am happy that Municipalika 2017, 14th International Conference and Exhibition on Sustainable and Smart Cities is being organised at CIDCO Exhibition Centre, Navi Mumbai from 18-20 May, 2017, with the support of Government of Maharashtra as Host State. The current government under the dynamic vision of our Prime Minister has taken up a host to programmes like Swachh Bharat Mission, Housing for All, 100 Smart Cities and 500 AMRUT cities. Therefore, Municipalika 2017 provides a good opportunity to showcase these initiatives at central, state and city levels, discuss the urban challenges, project best and leading practices and identify and demonstrate technological solutions.

Dr. Ranjeet Patil

Minister of State Home (Urban), Urban Development
General Administration, Law & Judiciary, Parliamentary Affairs, Skill Development, Government of Maharashtra



India and Ontario, Canada know that infrastructure investments are essential to strengthening our economies and laying the groundwork for future prosperity. The Government of Ontario is pleased to lead a delegation of nine companies and the University of Toronto to Municipalika 2017 to showcase Ontario's expertise in building urban transportation systems, developing green and energy-efficient projects and creating renewable energy infrastructure. Our highly skilled workforce and cutting-edge research and development make Ontario a natural partner for India as it works to achieve the goals of its Smart Cities Initiative.

Michael Chan

Minister of International Trade
Government of Ontario



I believe a Smart City is a Green City. The Swachh Bharat initiative by the Government of Madhya Pradesh has been very supporting and has been able to come up with new policies. There are many new programmes that are being initiated in Indore, Bhopal and Jabalpur including waste to energy initiatives, Swachh Bharat Mission and river rejuvenation works. Amidst these key developments, we believe Municipalika is a good platform to showcase, network and strengthen our vision towards smart cities and sustainable cities.

Maya Singh

Hon'ble Minister of Urban Development and Housing
Madhya Pradesh



A city can only become a smart city when it has fulfilled certain conditions which can only be achieved by spreading awareness and changing the way people think. It is only when we deal with issues like slums and open defecation can we truly call a city, a smart city. Land being a scarce resource, new satellite town planning on available land like earlier KGF is one proposal Government of Karnataka is contemplating. Therefore, I would like to complement the organisers of Municipalika 2017 for organising this wonderful exhibition and conference, showcasing the latest developments in the urban planning sector.

R Roshan Baig

Hon'ble Minister of Urban Development and Haj
Government of Karnataka



This is a very special exhibition and conference that brings together all stakeholders in the urban sector with an array of solutions to many challenges and problems. This year a collaboration from a range of experts from the University of Toronto and IIT Bombay as well as other partners has been initiated to spread awareness about the multi dimensional issues for development of cities. We had a number of Canadian speakers who have spoken about the best of what we have in Canada and how we can share some of that in India in terms of tangible progress building. For designing this spectacular activity, I would like to extend my congratulation to the team of Municipalika 2017 for putting in place yet another exceptional addition to bring in value for urban stakeholders.

H. E. Nadir Patel

High Commissioner of Canada in India



The reason for the existence of Smart Cities is to improve the living standard of the people by using smart initiatives. There are four major pillars necessary for the development of a city which are Institutional or Governance, Social, Economic as well as Physical and it is imperative that we focus on all of them. The major initiatives taken by Government of India for the 100 Smart Cities, 500 AMRUT Cities, Swachh Bharat Mission, Housing for all under PMAY and HRIDAY has given a major fillip to urban transformation for fast growing Indian cities. I must congratulate the organising team of Municipalika 2017 for organising such a comprehensive conference and exhibition. I am sure this will contribute in creating massive awareness in changing the landscape of urban development in India.

Durga Shanker Mishra

Additional Secretary
Ministry of Urban Development, Government of India



Smart and Sustainable Cities 2017 is a well thought up theme as smart cities do not function independently without sustainable environment. I applaud the organising team of Municipalika 2017 for setting such an appropriate theme as India is undergoing rapid urbanisation. I believe Municipalika is an exceptional platform to spread awareness regarding the smart city initiatives. I would also like to thank the organising team of Municipalika for giving me the opportunity to address such a vast audience and wish them all the very best.

Koh Lin Ji

Group Director
International Development Group Building and Construction
Authority, Singapore



Rajasthan has an image of a desert state and tourism state. However, now it is slowly transforming into a more developed state that is being recognised for its urban innovations not just in the country but also internationally. While cities may have major problems, we should turn those challenges into opportunities and take it forward in a large way. Hence, initiatives like Municipalika have provided a great platform to meet stakeholders from different facets of urban development, building upon the last Municipalika of Jaipur and the state level Municipalika event at Udaipur.

Pawan Arora

Director of Local Bodies and Joint Secretary
Government of Rajasthan



As host city we are proud to have Municipalika event in Navi Mumbai which has been developed as a well planned satellite town. Our cities should be provided with newer technologies for more balanced development and growth of the city. Municipalika is the right platform to bring over 170 exhibitors together through which we get to know about the latest technologies. However, we need to also look into the development needs of the neighbouring fringe rural areas besides investing in big cities and making the connectivity better.

Sudhakar Sonawane

Mayor
Navi Mumbai Municipal Corporation

Municipalika 2017 shares visions for Future Cities



In addition to four conference sessions and two technical sessions, day one of Municipalika 2017 saw a session on 'Vision Address: Future Cities' delivered by three eminent personalities. The guest speakers included Koh Lin Ji, Group Director, International Development Group, Building Construction Authority Singapore; Raghu Raman, Group President, Reliance Industries Ltd and Rajneesh Chopra, Global Head – Business Development, VA Tech Wabag.

The speakers provided their Vision for Future Cities, with each guest highlighting a different aspect that the cities would need to address in order to become an ideal Future City.



Koh Lin Ji gave the first vision address, talking about the collective vision of all the Singaporeans of a liveable city that makes effective use of all resources available sustainably for its citizens.

He also talked about how vision for Singapore has evolved over the years, from the country's first Prime Minister Lee Kuan Yew vision in the 1960s to the current Prime Minister Lee Hsien Loong's vision, which envisions a nation where people can live meaningful and fulfilled life, enabled seamlessly by technology.

Koh Lin Ji further elaborated Singapore's visions for the future, talking about

the country's long term plan to reserve land for its future and creating a society of diversity and inclusiveness. He also spoke about how the country is undertaking high density mixed use development. As Singapore is an island state of 700 square km, Lin also spoke about the importance of conserving resources and making full use of it for the future.

While highlighting various other aspects of Singapore's visions he also spoke about promoting innovative solutions and building amenities for all, whether they are rich or poor. Concluding that forging People Private Public (3P) Partnership and consultation is the way forward for Future Cities.

The second vision address was delivered by Raghu Raman, who spoke about security and safety in cities.

He touched upon different aspects of safety and security with his first point focusing on First Responders and how cit-



ies focus primarily on them. He also elaborated how the strategies of these First Responders are heavily biased on last attack that a city might have witnessed. He went on add that it's time to move forward from these mistakes and redefine first responders as each and every individual and not the state or sovereign who are actually the second responders.

The second aspect that he spoke on was how awareness has no correlation with action and that even with proper knowledge safety can be guaranteed. He pointed to the fact that steps need to be taken in order to address the problems on a sub-conscious level.

The third aspect he addressed was DeRisking and how important it is to nip the risk in the bud. Adding that it is high time to start looking at intelligent cities which are taking everybody along with them, emphasising the need to create new 'Social Structures' that encompasses everyone.

He also added that if everyone is not included then although building smart cities might be possible but they will not be intelligent. So instead of building cities that are smart the focus should be to look at a philosophy of cities that have a heart.

Finally, Rajneesh Chopra delivered his vision address highlighting the various focus areas and challenges when dealing with water management and treatment. He



spoke about the fact that the government has launched several initiatives related to water management however the important factor is how one can integrate such initiatives and policies. As far as water management is concerned he also highlighted the key focus areas that is highly important for future cities such as 24x7 water supply, desalinisation in coastal areas, piped sewerage connection, complete wastewater treatment and reuse, sludge management and resource recovery – waste to health.

Commenting on the challenges faced during spreading awareness of sludge management as well as water management he stated that funding is a key factor and that introduction of volumetric tariffs can be a proposed solution to this. He further added that although technological intervention can reduce the opex of waste water treatment plant by 50% it does not solve problems related to operating cost, so it is only through the participation of both the citizens and the government can effective water treatment capabilities be achieved.

Participative Cities Open House Interactive session with Mayors, City Managers, RWA, NGO, CBO



The second day of Municipalika 2017 witnessed a highly interactive session where panelists and the audience were able to communicate with each other in an open house format. The session brought forth dialogues in between those governing and those who are governed in matters related to the theme of 'What can Governments do and citizens do, to make cities clean and safe and secure' and ensuring good governance through civic and citizens engagement.



The session had the participation of several eminent individuals such as Mayors, Commissioners, representatives RWA and Citizen Group, Civil Society Groups and Professionals deliberating on what else both the government as well as citizens can do to make cities clean, safe and secure.

Among the panelists, Mayors from different Municipal corporations spoke about the various initiatives undertaken in their respective areas. Mamta Gupta, Mayor, Rewa M.P mentioned about the planned 750 MW solar power plant in Rewa district which when completed will be the world's largest solar-power plant. Shakti Singh Chaudhary, Mayor, Gangtok Municipal Corporation was lauded for attaining the title of safest city in the country as well as for other initiatives such as banning of crackers and burning waste in an effort to further

reduce air pollution, etc. Rajani Pantham Seshasai, Mayor, Rajahmundry Municipal Corporation highlighted multiple initiatives to curb waste management, drainage as well as the addition of a new social security scheme and much more. Pramod Dube, Mayor, Bhilai Municipal Corporation gave insights on the development and maintenance of water bodies as well as the idea of introducing Air condition Bus stands with attached washrooms to improve sanitation standards. Kishore Rai, Mayor, Bilaspur Municipal Corporation spoke about the progress of work for waste management as well as the impact of Jal Jeevan Scheme on ground water conservation.

The two and half hour Open House session brought in very interesting insights and interventions with excellent suggestions for heralding Public-Private-People's-Participation and Partnerships (PPPPP) – together, leading to improved, efficient and smart Performance of Cities for improving the quality of life of Citizens.

The session was a great opportunity for all the stakeholders to really discuss the

heart of the matter, like how green and safe were the cities in the country. It brought forth queries from the audience regarding measures against tackling pollution, steps to better city planning, initiatives to further improve and recreate waste management success and much more. The queries were answered by the eminent panelists who hinted on how the synergy in between both the citizens and the governing bodies can be the solution to all these problems.



A key area that emerged from the enriching discourse was not just citizens' participation but an amalgamation of efforts from both the governed and the ones who govern. Responsible and Responsive Actions from both sides were identified as basic requirements for bringing transformative changes. Top Down government initiatives has to meet the bottom-up initiatives from the grass root levels interventions for Integrated and Sustainable Development.

The session was finally summed up by V Suresh, Former Chairman of HUDCO, who highlighted the urgency of citizen involvement while praising the initiatives undertaken by the respective mayors and government representatives as well as of others in developing cities jointly with citizen participation and partnership.



Panel Discussion on Challenges and Way Forward for Affordable Housing in India



Urbanisation and housing reveal a nation's economic growth and social wellbeing and the Government of India upon recognising the need to fill the gap in urban housing had come up with an answer. The solution to this predicament was large-scale housing projects that are affordable, otherwise known as Affordable Housing

construction costs and taxation and how these had become the major constraint areas and need to be made cost effective and affordable by using optimum and efficient use of all resources.

The discussion also explored other areas of interest such as the effect PMAY has on affordable housing, how land plays a pivotal role in this scenario and most importantly the core concept of the role of the government sector as well as the private sector in properly streamlining the affordable housing scenario in India. To which, the panelists voiced the same opinion that to make affordable housing a success in India like it has proved to be in places like Singapore, it is necessary for both the Government and Private sector to work in unison that will ultimately streamline each other's role for them.

The session became even more interactive when members of the audience were given the opportunity to ask questions regarding their views on affordable housing to the panelists. The Q&A not only helped in solving the different queries but ultimately it provided a scenario for information sharing and awareness for both, the ones who were asking the questions and the ones who were answering.



Municipalika 2017 in order to provide a better clarity to the public about the challenges and solutions related to affordable housing organised a panel discussion inviting several eminent individuals to the dais.

The Panelists consisted of A. Shankar, National Director, Jones Lang Lasalle; Jayashree Kurup, Editorial Head, Magic Bricks; Nakshatra Roy, Head BD and Marketing, Tata Housing; Sanjiv Agarwal, Founder and Trustee, Good Governance India Foundation; Aarti Harbhajanka, Associate Director, KPMG and V Suresh, Advisor, Good Governance India Foundation, Former CMD, HUDCO. The session was moderated by Faye D'souza, Executive Editor, Mirror Now.

The session witnessed a fantastic interaction between the panelists who provided valuable insights on the Challenges for land, building materials, finance, infrastructure,



Canadian delegation demonstrates innovative urban development solutions at Municipalika 2017



Canada has been a stalwart partner and supporter of Municipalika throughout the years. They have participated as a partner country at Municipalika 2015 and once again were pleased to participate as a partner country in 2017. This year's chapter once again attended by H. E. Nadir Patel, High Commissioner of Canada in India, who shared Canada's experience in building world-class cities and underscoring Canada's commitment to India, at the inaugural session.

Speaking about Municipalika 2017 and about Canada's infrastructure expertise and potential to contribute to India's urban development plans, the High Commissioner said that this was the third time Canada had the honour of being the partner country of Municipalika which is arguably one of the premiere events in the category of urban development and sustainable solutions. He spoke about the fact that Canada has much to offer that meet the requirements here in India with respect to urban development and this year at Municipalika a collaboration from a range of experts from the University of Toronto and IIT Bombay as well as other partners has been initiated to spread awareness about the multi-dimensional issues for development of cities.

The scale and geographic diversity of Canada's landscape has enabled Canadian companies to acquire extensive expertise in the design, construction and operation of transportation-related facilities. Canada is also a leader in intelligent transportation systems including those related to traffic management, Global Information System tracking, weigh-in-motion technologies, rapid transport systems and multi-modal transportation.

In addition, to support from Global Affairs Canada, this year's delegation to Municipalika was supported by the Province of Ontario – a powerhouse of Canadian infrastructure capabilities ranging from professional services, technologies, solutions and a world-class ecosystem to support the cutting edge companies. Additionally for the 2017 edition of Municipalika, over 20 Canadian companies/organisations participated which included Aretas Sensor Networks; Carl Data Solutions Ltd.; Ceres Bio Systems; Clearford Water Systems Inc.; Endura-Form Plastic Solutions; Imex Systems; Intellizim Corporation; Kryton International Inc.; Lea Associates South Asia; Logix ITS India LLP; Loraxian Inc.; Mafna Air Technologies Inc.; Nuworld Research & Development; Premier Tech Aqua Systems India Private Limited; TotalPave; IBI Group; Transoft Solutions Private Limited; AMP Solar; University of Toronto; Government of British Columbia; Government of Alberta; Government of Ontario.



The strong presence of the Canadian delegation was also manifested through their significant contribution in the conference sessions. Brad Woodside, Vice President of Business Development & former Mayor of Fredericton, TotalPave, in conference session CS01A spoke about the fact that nowadays everybody is much more aware of

smart cities and that is a good thing as now the dialogue has been initiated and the process has finally gained its due traction. He went on to state that both the countries now have an advantage as with the prime ministers of both countries agreeing to collaborate and share ideas will enable better urban development scenarios. When questioned about his experience about creating a smart city and how was it different from the current condition in India, he stated that urbanisation should not come as a shock as it creates stress on the infrastructure but the biggest thing is starting the process and the fact that India has already achieved this goal with the launch of the 100 cities initiative is highly commendable.



Akhil Tyagi, Area Director-South Asia, Export Services Branch, Ministry of International Trade, Government of Ontario, spoke in conference session CS01B where he briefed the audience about Ontario and delved into different initiatives that have been carried out such as water purification, water management, transportation, ultra high-speed public broadband network, accounting models and system for infrastructure financing. He also touched upon the fact that rapid urbanisation results in problems and it is through joint effort that a solution can be found. Knowledge sharing will be beneficial for all of us and Ontario is open for that.



BCA highlights Singapore's development and sustainability initiatives in Municipalika 2017

Singapore as the Feature Country of Municipalika 2017 participated through the Building and Construction Authority (BCA) bringing to the fore rich global experience of decades in creating sustainable and vibrant smart cities with the best practices in planning, design, execution and good governance of cities.



The Building and Construction Authority (BCA) is an agency under the Ministry of National Development, Government of Singapore championing the development of built environment for the island city-state of Singapore. Their mission and vision is to shape a safe, high quality, sustainable, friendly and future-ready

efforts in rapid urbanisation and praised Municipalika for selecting a theme like 'Smart and Sustainable Cities 2017' which is so appropriate. He further highlighted the various initiatives related to urban development that is currently being undertaken in Singapore and what Singapore can offer India when it comes to sustainable urban development.

While speaking in the conference session CS01A, the Group Director highlighted how BCA acts as a Promotional Regulator Creating Pro-Business Market Place as well as new features such as CORENET (Construction and Real Estate Network) and its scope and utilities.

Additionally he delivered a Vision Address in Municipalika 2017 where he talked about the collective vision of all the Singaporeans of a liveable city that makes effective use of all resources available sustainably for its citizens. (Read page #8)

The strong presence of the delegation from Singapore was also witnessed throughout the different conference sessions during the three day event. Marcus Lim, Managing Director, Ecosftt spoke



A C S Jayapaul, Head, South Asia, Building Construction Authority, Singapore spoke about Singapore's strategy on further developing Sustainability while simultaneously enhancing development scenarios during conference session CS 06.

Jayan A, Head- Process & Innovation, L&W Construction Pvt Ltd, Singapore during technical session TS 04 highlighted on Singapore's implementation of Modern Construction Systems, Practises and Technologies.



built environment for Singapore. Together with its education arm, the BCA Academy, BCA works closely with its industry partners to develop skills and expertise that help shape a future-ready built environment in Singapore. In line with the national target to green at least 80% of the buildings in Singapore by 2030, BCA has been driving the green building movement in Singapore and beyond, since the launch of the BCA Green Mark Scheme in 2005.

To continually raise quality standards in the construction industry, the Construction Quality Assessment System (CONQUAS) has been the de facto national yardstick for construction workmanship quality for building projects in Singapore.

During his feature country address in the inaugural session Koh Lin Ji, Group Director, International Development Group, BCA Singapore, applauded India's

about Decentralised and Integrated Management of Water, Wastewater and Environmental Services Sustainable Water Management in India and how Singapore can act as guidance in this scenario in conference session CS 04B.

Also, Bhvvanesvaran Muthu, General Manager, Integrated Precast Solutions Pte Ltd spoke about the volumetric construction in Singapore and how far has Singapore progressed for speedy construction in technical session TS 04.



Rajasthan presents initiatives and strategies for Healthy, Sustainable and Smart Cities

Rajasthan, which was the host state of Municipalika 2015, participated this year as the Partner State of Municipalika 2017 through the Department of Local Self Government.



Rajasthan has set an example through all round involvement in the Centre's initiatives such as Swachh Bharat Mission, Smart Cities, AMRUT (Atal Mission of Rejuvena-

tion and Urban Transformation), Housing for All and HRIDAY for better governance and quality life for the citizens. He further added that while cities may have major problems, it is the shared responsibility to turn those challenges into opportunities and take it forward in a large way. Thus initiatives like Municipalika provides a great platform to meet stakeholders from different facets of urban development, building upon the last Municipalika of Jaipur and the state level Municipalika event at Udaipur.

The strong presence of the Rajasthan delegation was further manifested through their significant contribution in the conference sessions and technical sessions. S K Goyal, Project Director (Urban Infra), RUDSICO who spoke in both conference session CS 01B and CS 05A highlighted on the current status of AMRUT Rajasthan where he mentioned key details such as how Rajast-



han has the fastest approval of SAAPs from MoUD, 95% DPRs approved by SLTC within 16 months of time and many more. He also commended the current status of Rajasthan in the Swachh Survekshan 2017 results.

Speaking about Municipalika 2017 and the recent initiatives that Rajasthan has undertaken to further enhance its urban development efforts during the inaugural session, Pawan Arora, Director of Local Bodies and Joint Secretary, Government of Rajasthan said that, Rajasthan has been mainly defined as a desert state and tourism state but now it is slowly transforming into a more developed state that is being recognised for its urban innovations not just in the country but also internationally.

Dr. Himani Tiwari, Co-ordinator, City Managers Association of Rajasthan, Directorate of Local Bodies, Government of Rajasthan spoke in conference session CS 05B where she highlighted the importance of awareness creation and community participation as part of healthy cities.

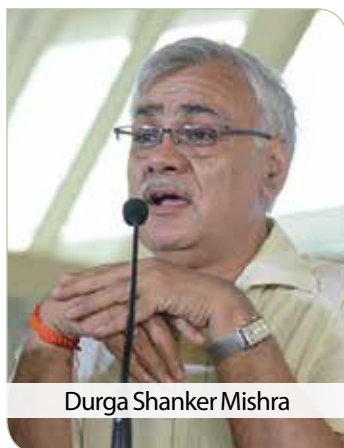
Manoj Soni, Project Director (Housing), RUDSICO in conference session CS 08A spoke about the Chief Minister's Jan



Awas Yojana -2015. He highlighted the various goals of the project such as 'Affordable Housing for All' by creating EWS/LIG housing stock through PPP and other options to meet the housing shortage in the State. He also spoke about various construction practices and technologies that Rajasthan is implementing in technical session TS 04.

R K Vijayvergia, Senior Town Planner, Directorate of Local Bodies, Government of Rajasthan spoke about Smart Raj - an initiative of Local Self Government Department Government of Rajasthan in conference session CS 09B.





Durga Shanker Mishra



Brad Woodside



Dr. Sujata Govada



Chandras Chaudhari



Koh Lin Ji



Kamal Kashyap



Akhil Tyagi



Karin Olofsson



Rajesh C Mathur



SK Goyal



R Srinivas



JK Singh



Suresh Menon



Vijay Patil



Vinod Chithore



Manoj Dubal



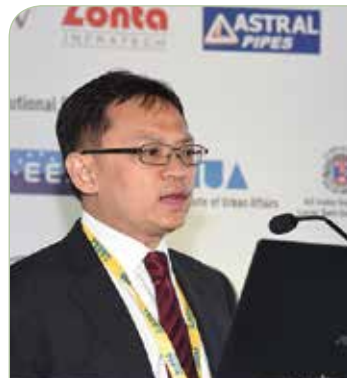
SK Dheri



Rakesh Solanki



S Sivasubramanian



Marcus Lim



Prabhat Rahangdale



Rohit Kakkar



Deepak Gahlowt



Sandhya Iyer



Santosh Warick



Dr. Shivakumar Jaykumar



Raj Kumar Pillai



Sumit Khanna



A Shankar



Jayashree Kurup



Matt McCormick



Meera Malegaonkar



Shakti Singh Chaudhary



Rajani Pantham Seshasai



Mamta Gupta



Chandrika Chandrakar



Pramod Dube



Kishore Rai



Dr. P N Ravindra



G Prakash



KB Biswas



Pankaj Jain



Prem Sharma



R Sivashunmugam



Sharath Rao



S Arun Kumar



Sanjay Pant



Shashi Kant





Uma Adusumilli



R KVijayvergia



Debashish Chakraborty



Mala Singh



Dilraj KR



Pranav Poddar



Manisha Matanhelia



Nakshatra Roy



Aarti Harbhajanka



Soma Vijayakumar



M Rajadhurai



Anoop Chaturvedi



Ashok Kumar



C Velan



Rajesh Phadke



Hansu Pardiwala



Dr. S.S. Mantha



Arvind Bhatia



Saurav Choudhury



Vivek Jain



Bharat Gupta



Namrata Mahal



ACS Jayapaul



Dipak Kokate



Sundar Muruganandhan



M Selvarasu



Jayan A



SK Gupta



Sumit Raina



SJ Vijay



Bitul Gangal



Abdul Matheen



I have been aware of this forum for the last five to six years and this exhibition has been helping the municipalities, institutions, cities and states in various ways. I have experienced that it has gone wider and has grown dynamic in terms of the subjects they cover. This platform provides all the resources to come together to discuss and decipher on various issues faced in our cities.

Uma Adusumilli
Chief-Planning Division
Mumbai Metropolitan Region Development Authority
(MMRDA)



My interest in urban areas and urban planning has brought me here to attend Municipalika. Not only have I been an earlier participant, but also a regular at attending its previous editions. My overall experience at conference sessions has been quiet motivating and the dynamic technology display at the exhibition has been given us a lead towards the future of urban planning.

Kedarnath Rao Gorpade
Urban Planner and Former Chief
MMRDA



Municipalika 2017 is intense in terms of the subjects it has covered through its interactive conferences. Not only have we enjoyed our participation but also, we have got information regarding the latest technologies needed for the urban sector. These types of activities must be organised in future too to enhance more knowledge sharing about the urban issues and the infrastructure industry.

Harcharan Singh
Mayor
Ludhiana Municipal Corporation



Municipalika exhibition and conference has benefitted a lot to all smart cities participants and business communities that manufacture products which are useable and sustainable for the cities. Lots of new things, new ideas are coming up in the world since the development of the new smart cities and such shows make it a comprehensive teamwork for the working community and the people who are providing these facilities. Therefore, I think these activities should become more frequent. The exhibitor's quantity and quality has also been quiet extensive compared to its last edition along with dynamic products and fruitful discussions through its conferences. It's a very good initiative and I hope the organisers continue to take it forward.

Sunil Jyoti
Mayor
Municipal Corporation Jalandhar



I want to congratulate Municipalika for holding the 14th edition of its exhibition and conference and its increasing number of participation. The quality of participation in the exhibition space as well as the conferences has been extremely good. This exhibition proves that our country can do much more in solid waste management, waste water recycling, transportation management, use of information technology, energy management and in good urban governance. This exhibition has showed that the cities can be made cleaner and can seek solutions to various problems on urban development.

Dr. Sudhir Krishna
Former Secretary
Urban Development, Government of India



It was a great opportunity to attend this impressive exhibition and conference and also chair the session on 'Smart Cities, Digital Cities & Initiatives by the Private Sector'. The event had good speakers and dynamic sessions on multiple subjects. Municipalika is very well known for promoting good urban governance. Hence, the organisation of the session reflects the theme of the event. I think it has a very strong foundation and I wish the organisers good luck for their future editions as well.

R. K. Vijayvergia
Senior Town Planner- Directorate of Urban Administration
Government of Rajasthan



The organisers of Municipalika 2017 have done a phenomenal job in creating this wonderful event that brings together visitors from both the government and private sectors to discuss about urban development and related issues. More so, the arrangements have been well planned and selecting Navi Mumbai as the location for this event has also proved to be an effective decision. I am glad to be a part of this event and hope that the event keeps growing in the times to come.

Manoj Kumar Soni
Project Director (Housing)
Rajasthan Urban Drinking Water, Sewerage and Infrastructure Development Corp. Ltd. (RUDISCO)



I have been associated with Municipalika for the past 10 years and the organising capacity of the team is remarkable. Here, cities get a platform to get together and learn about the latest technologies and developments in the urban development sector. I am also glad that year after year, this forum is being taken to different cities of India, giving a closer opportunity to the host city and also at the same time for cities of different regions to learn more about developments in the country. This platform has made it possible for us to think more about our urban mobility problems, solutions, and what cities can do to bring about improvement.

Dr. M Ramachandran

Former Secretary, Urban Development, Government of India
 Chairman, Indian Heritage Cities Network Foundation



I have visited Municipalika's last two editions and it gives me immense pleasure to be a part of its 14th edition. Our reason to attend this exhibition and conference is because it creates and develops a platform in the urban development sector, for not only the private stakeholders but also government bodies. I saw many new products in the field of sewerage system, drinking water, street lighting and many more being exhibited here. The organising team here at Municipalika have been very hospitable and I commend them on their effort on creating such a brilliant event.

Pantham Rajani Sessa Sai

Mayor
 Municipal Corporation, Rajahmundry



It feels great to be a part of Municipalika 2017. Having witnessed a range of exhibitors and information exchange via conference sessions clearly demonstrates the pool of products that can be used by municipalities across India. Through Municipalika, we have got an opportunity to understand more closely about the latest technologies and its usage that will help us in improvising the standard of living in our respective municipalities to contribute our effort in the Swachh Bharat Mission.

Mamta Gupta

Mayor
 Rewa Municipal Corporation



Being familiar with Municipalika and its quality of exhibition and conference, I have come here to attend it this year as well in Navi Mumbai. The exhibition had a vast display of machineries for the development of our cities and infrastructure to water and solid waste management that is going to encourage us to build better and safer smart cities.

Bhakshi Ram Arora

Mayor
 Amritsar



Municipalika 2017 was an enriching experience. The sessions, spread over three days, covered the entire gamut of smart and sustainable solutions that the industry/market has to offer. The stalls were informative about the products on display and often provided firsthand experience of the product or solution on offer. Solutions and practices like thermal faecal sludge and septage treatment by TTP, Faecal sludge management by CDD, DuraPatcher, Ecoman, rNature, Zonta, EzyNest (by Tata Group) drew attention and were appreciable. Interaction with IGBC team led to their presentation to departmental heads and builders association in Varanasi to design greener and eco-friendly work places, homes, public spaces and thereby cities. The themes of the sessions were holistic and covered every aspect of urban governance.

Conference sessions on Smart and Sustainable cities - Way forward, Integrated Solid Waste Management, Humane Cities - PMAY had rich views by panel members. Similarly, technical session on Green Building Technologies and Products was also educative. I would like to congratulate the entire team of Municipalika 2017 for putting up a grand event which helps broaden horizons about urban issues under one roof and remain updated about activities and developments through Urban News Digest on a regular basis.

Pulkit Khare, IAS

Vice Chairman
 Varanasi Development Authority



This is our second year at Municipalika, and we have had a fantastic experience. We have been the television partners for this event because we believe that the things that have been talked through this forum actually adds quality to your life. From the number of interactions, to the types of participants at the exhibition, to the conferences have been beneficial. And I personally feel that the quality of participants has also added value to the exhibition making it an integrated solution provider for housing and infrastructure needs. Therefore, I hope, that Municipalika continues to grow bigger and better in the times to come.

Faye D'souza

Executive Editor
 Mirror Now



It's the second time our organisation has participated in this exhibition and conference. We eagerly hope that Municipalika becomes the largest ever show that brings larger industry players to India. Bajaj Electricals will be more than happy to partner with future editions of Municipalika to make it even greater in the times to come. Through this show in the future, we can have municipalities from around the world for a smart city exchange. Another thing that impressed me was the quality of the co-exhibitors at the show. Municipalika is a good testimony of 'Make In India' exhibition which can really make a big difference to the country in the times to come. This might as well be an exhibition that brings the lost Indian glory back to us.

Anant Bajaj

Joint Managing Director
Bajaj Electricals Limited



This is one of the show's that has created a niche for itself, and the real thing we love about this show is that, it moves around city to city, creating an opportunity of meeting municipal corporations in different regions of the country. It's a great platform to connect companies with the buyers for the solutions. Therefore, we really look forward to participating in Municipalika again.

Akhil Tyagi

Area Director-South Asia
Ministry of International Trade, Government of Ontario



Municipalika is that one event through which we can connect with our existing clients and prospective clients and brief them about our latest projects and technologies. Another thing that grasped our attention was the conference sessions that were mostly houseful with a range of influential speakers, which normally doesn't happen in such events, mostly because of the relevant information and data put across for the audience, creating a pool of awareness. We look forward to participate in Municipalika's next edition.

Rajneesh Chopra

Global Head - Business Development
VA Tech WABAG Limited



I have been coming to Municipalika for the last eight years, and I think urban development wasn't even recognised as a sector when the organisers started this concept. But the team was ahead of their time and today the time has come wherein cities are desperately looking for urban development solution. Further to it, the conference sessions this time have identified more problems related to the sector, giving it a good start. I think Municipalika should continue to do with what they are doing, and I strongly feel that we as people need Municipalika.

E Jayashree Kurup

Head-Content & Advice
Magic Bricks



Our participation in this exhibition and conference has been quiet productive because we had various corporate as well as government people visiting our stall. We are also very hopeful that our business will multiply into manifolds through our participation over here.

Avadhanam Narasimhan

Head-Business Development
HIK Vision



Municipalika is an excellent platform for all those who are involved in any aspect of managing a habitat, building, house or any of the services connected to this sector. For us, this mission has become much more valuable for the reason that we brought in a change in the industry in the way construction happens and much more. To communicate about our products and services to various stakeholders from the private and government sector, the only way is the platform like this, for which the organisers have been efficiently working for the past 13 years.

S.J. Vijay

Chairman
Salmon Leap



Our organisation had participated last time in Jaipur and this time in Navi Mumbai. Our overall experience in this year's exhibition and conference has been really good and the footfalls have been quiet impressive with relevant audience. Municipalika has given us an opportunity to narrate our success stories and our products to the municipalities, mayors, and people from the government sector and private stakeholders. We believe that the exhibitors are going to have good exposure of their products through this platform.

Dr. Abhay Kimmatkar

Joint Managing Director
ADCC Infocad Limited



I have been attending Municipalika for the past several years. I feel that it's a great platform because of the combination of the interactive conference sessions and the display of technology. It takes massive effort to organise something as big and as interesting as Municipalika. The other thing that I believe adds value to this exhibition is the Urban News Digest magazine that helps the industry to learn more intensely on several subjects concerning the urban development.

Dr. Sujata S Govada
Founding and Managing Director
UDP International



It feels great to participate in Municipalika event. This is one of the best events being conducted year on year for the societies and for the benefit of municipalities across India. Participation in Municipalika helps many of the municipalities to comprehend the latest technologies available not only in India but also in other countries, to have their learning's and to implement it across their municipalities. This display of technology coupled with informative sessions is in turn helping the municipalities to further establish themselves.

Dr. C Velan
Executive Director and Chief Executive Officer
Tata Realty INFOPARK Limited Ramanujan IT City



It's our third participation in Municipalika and the event has turned out to be very good. There are many people representing different organisations from different parts of the world. Remembering my participation few years back in Chennai to now, the exhibition and conference has evolved, participation level has increased and many people have come forward to join this forum in terms of discussing technologies and products. The overall exhibition has been progressing well and the conferences have been good.

M Rajathurai
Technical Manager (Asia Pacific)
Bentley Systems



The response we have received at Municipalika 2017 has been extremely exceptional. Through this exhibition we were able to attract more government officials and were really impressed with the flow of delegates and visitors during our participation. We also launched a new product at Municipalika and found many vendors to be interested in it and looking to further collaborate with us. Overall the event has proved to be an excellent platform.

Bipin Salunke
Managing Director
Ecoman Enviro Solutions Pvt. Ltd.



This is our first time that we have attended Municipalika. We came here to exhibit our projects and in this process we got an opportunity to meet various suppliers and vendors from the urban development and housing sector, giving us a unique experience. We believe that it is a very good platform to showcase who you are and create a network with people from the same industry.

Nakshatra Roy
Head- Business Development and Corporate Marketing
Tata Housing Development Company Limited



We have been participating in Municipalika for quite sometime now because this platform is really helpful to raise interactions with the stakeholders to network, promote and provide the information on various segments. This kind of forum is helpful for both the industry as well as the users. Having this platform split into exhibition and conference actually helps the manufacturers and vendors speak about the challenges and solutions, that helps in reaching out to a bigger audience and we look forward to participate in the future editions of the event as well.

Shreekant Phanse
Senior Manager-Lighting Application Specialist,
Professional Channel, Western Region
Philips



Through this platform, I got an opportunity to speak for 'Cities & Sustainable Cities', I think this is one of the finest concepts that has been rolled out by Municipalika on Smart Cities. Because, it goes beyond the conventional theme that not only covers IT part but also on how we can make a city far more liveable from city perspective in terms of waste management, people management, crowd management and information management which is around digital cities. Therefore, in my opinion the event has been very well covered and I really want to thank Municipalika for giving me this opportunity to be here as it has been very insightful.

Anoop Chaturvedi
Regional Manager- Technology Consulting
Hewlett Packard Enterprise



This exhibition is an excellent way to spread awareness about the several initiatives related to affordable housing and other infrastructural projects. This showcase has been quiet helpful for not only the exhibitors but also the visitors, helping them understand about latest technologies and its usage. I hope that this exhibition and conference continues to excel further in its future editions.

Ganesh Kamat
 Licensed Structural Auditor
 Ganaka Engineers & Architects



Municipalika 2017 has been an outstanding event and has been well organised, through our participation we were able to receive a substantial number of corporate and government visitors. Also, the choice of location has been extremely well planned. WILO is one of the main solution providers for water and wastewater utilities and we are definitely interested in a bigger participation in future editions of this event.

Aniruddha Joshi
 Senior Manager
 Water Management
 WILO Mather and Platt Pumps Pvt. Ltd



The exhibition and conference sessions have been interesting in Municipalika 2017. The event had conferences parallel to the exhibition that helped in culminating diversity. The biggest advantage of Municipalika is that, they manage to get a hold of really influential people who can influence policies and can work on the implementation of certain recommendations, crucial for the growth of the urban development sector and hence, I feel Municipalika is doing a great job.

Vikram Saraph
 Partner & Principal Architect
 TransENVIRO Design Studios



Municipalika event overall was a good initiative because it has covered about the current concept of smart and digital cities, in the Indian context and how it is relevant to the overall scenario. The sessions during Municipalika gave a rich insight onto the speaker's perspective and have given a good platform in terms of collaboration and sharing thoughts and building of a better future.

Gopu Chandran
 Business Operations Head-Public Sector
 UST Global



Municipalika is a big attempt by the organisers under which they have taken efforts to bring together urbanists, architects, planners, government officials, private stakeholders, technology holders, corporations, manufacturers and many more under one roof. It has helped the sector to grow and draw an analysis on their requirements based on the latest products. Seeing the show's immense potential, I request the organisers to come up with this show in more cities.

Sanjiv Gupta
 Director-Technical
 Hindustan PREFAB Limited



This is our third participation at Municipalika and we are really happy to receive a positive response from this exhibition. Another thing we really looked upto were the panel discussions during the conference sessions that were of huge help for us. Through this exhibition and conference, we have not only been able to acquire tremendous information of this sector, but also felt happy to frame it in front of the right audience which more often we are not able to showcase.

Sumit Raina
 CEO
 Shumbham Acqualink



It is our maiden participation in the show and it has turned out to be a fairly good event for our company because lot of our products specialise with smart and sustainable cities. The exhibition and conference has been very informative to learn about new products and technologies that can improve our standard of living. The stalls at the venue to the exhibitors has been quiet impressive to us. Having attended several exhibitions abroad, this is on par with the ones organised abroad. In terms of the professionalism that has been shown, and from the way the exhibition looks in our first participation, we most certainly will be participating in the future.

Aahan Sethi
 Director
 Gemini Power Hydraulics Private Limited

Inaugural Session

18th May 2017 | Time: 10:00 - 11:30

Welcome Address	Mr. Sanjiv Agarwal , Founder Chairman, Good Governance India Foundation, Editor & Publisher - Urban News Digest
Theme Address	Mr. V Suresh , Advisor Good Governance India Foundation, Former CMD, HUDCO
Host City Address	Mr. Sudhakar Sambhaji Sonawane Worshipful Mayor, Navi Mumbai Municipal Corporation
Partner State Address	Mr. Pawan Arora Director of Local Bodies & Joint Secretary, Government of Rajasthan
Feature Country Address	Mr. Koh Lin Ji Group Director, International Development Group Building and Construction Authority, Singapore
Partner Country Address	H. E. Mr. Nadir Patel High Commissioner of Canada in India
Keynote Address	Mr. Durga Shanker Mishra Additional Secretary, Ministry of Urban Development, Government of India
States Address	Mr. R Roshan Baig Hon'ble Minister of Urban Development and Haj, Government of Karnataka
States Address	Mrs. Maya Singh Hon'ble Minister of Urban Development and Housing Government of Madhya Pradesh
Vote of Thanks	Mr. G Ibrahim Executive Director, Good Governance India Foundation



Conference Session CS 01A

DAY 1 18 th May	THEME : SMART AND SAFE CITIES
14:00 – 15:45	Smart and Sustainable Cities – Progressive Cities
Chair	Mr. Durga Shanker Mishra Additional Secretary Ministry of Urban Development, Government of India
Speakers	Mr. R Srinivas Town and Country Planner TCPO Ministry of Urban Development, Government of India Mr. Vinod Chithore Chief Engineer Development Plan MCGM Mr. Vijay Patil / Sanjay Nirmal Executive Engineer Development Plan MCGM Mr. Manoj Dubal Immediate Past President Practising Engineers Architects and Town Planners Association (PEATA) Mr. Brad Woodside Vice President of Business Development & former Mayor of Fredericton TotalPave Mr. Rajesh C Mathur Advisor Esri India Mr. Koh Lin Ji Group Director International Development Group Building and Construction Authority, Singapore Ar. Deepak Gahlowt Convener Confederation of Construction Products and Services (CCPS)

Conference Session CS 01B

DAY 1 18 th May	THEME : SMART AND SAFE CITIES
16:00 – 17:45	Smart and Sustainable Cities - Smart Cities
Chair	Dr. Sujata S Govada Founder & Managing Director UDP International, Hong Kong
Speakers	Ms. Karin Olofsdotter Director General Ministry of Foreign Affairs, Government of Sweden
	Mr. Snehal Kumar Bokare Regional Director, India Bentley Systems
	Mr. S K Goyal Project Director (Urban Infra) RUDSICO
	Mr. Kamal Kashyap Country Manager Government and Public Sector Hewlett Packard Enterprise
	Mr. Chandras Chaudhari Sr. General Manager ADCC Infocad
	Prof. Chetan Vaidya Director School of Planning & Architects
	Mr. Akhil Tyagi Area Director-South Asia, Export Services Branch Ministry of International Trade, Government of Ontario
	Mr. Pratap Padode Founder & Director Smart Cities Council India

Conference Session CS 02

DAY 1 18 th May	THEME : SMART AND SAFE CITIES
14:00 – 15:45	Safe and Resilient Cities – Fire and Life Safety
Chair	Mr. J K Singh Joint Director Fire Service Head Quarter Lucknow
Co-Chair	Mr. Suresh Menon Vice Chairman FSAI Events and Managing Director Schweitzer India, FSAI and Schweitzer India
Speakers	Mr. S K Dheri Convener NBC Part 4 Fire Protection
	Mr. S Arun Kumar Sc 'D' (Civil Engineering) BIS
	Mr. Prabhat Rahangdale Fire Advisor to Government of Maharashtra Director - Maharashtra Fire Services and CFO - Mumbai Fire Brigade Mumbai Fire Brigade
	Mr. Santosh Warick CFO & FA, MIDC & Director, MAITRI Maharashtra Fire Services / MIDC
	Mr. Sumit Khanna Consultant FM Global International Codes and Standards Group, India
	Mr. Ramesh Krishnan Executive Director, Foundation For Development Action KSDMA

Conference Session CS 03

DAY 1 18 th May	THEME : SMART AND SAFE CITIES
16:00 – 17:45	Secure Cities
Chair	Mr. N Ramachandran President Indian Police Foundation
Speakers	Mr. N R Markhandeya Deputy Director, FS Karnataka State Fire and Emergency Services
	Ms. Sonali Kadam Business Development Manager HIKVISION
	Mr. M Rajadhurai Senior Manager – Product Success Bentley Systems
	Mr. D Murali Mohan RFO /SR Government of Andhra Pradesh State Disaster Response & Fire Service Department

Vision Addresses

DAY 1 18 th May	THEME : SMART AND SAFE CITIES
18:30 – 20:00	Future Cities
Panelists	Mr. Koh Lin Ji Group Director International Development Group Building and Construction Authority, Singapore
	Mr. Raghu Raman Group President Reliance Industries Ltd
	Mr. Rajneesh Chopra Global Head – Business Development VA Tech Wabag Ltd

Conference Session CS 04A

DAY 2 19th May	THEME : HEALTHY, GREEN AND CONNECTED CITIES
09:30 – 11:30	Healthy Cities – Water Supply
Chair	Mr. K B Biswas Chairman Central Ground Water Board
Speakers	Mr. Kishore Wadhavane Director (Technical) MCGM / Indian Water Works Association Mr. R Sivashunmugam Superintending Engineer Chennai Metro Water Supply & Sewerage Board Dr. Sabyasachi Nayak CII Water Institute Mr. Rajneesh Chopra Global Head – Business Development VA Tech Wabag Ltd Mr. Suneet Manjavkar Product Sales Bentley Mr. Pradeep Thomas Divisional Manager – Pre-Sales ESRI India Mr. Jayakumar J S Sanitation Expert Suchitwa Mission , Kerala Mr. Abdul Matheen Director Mechanical IAPMO Mr. Piyush Pandya State Head - Marketing Prince Pipes Er. Rajendrakumar V Saraf Indian Water Works Association Mr. Aniruddha Joshi Sr Manager, Water Management WILO Mather and Platt Pumps Pvt Ltd

Conference Session CS 04B

DAY 2 19th May	THEME : HEALTHY, GREEN AND CONNECTED CITIES
11:45 – 13:30	Healthy Cities – Waste Water
Chair	Mr. Marcus Lim Managing Director, Ecosoftt
Speakers	Mr. Sanjay Gupta CII Water Institute
	Mr. R Sivashunmugam Superintending Engineer Chennai Metro Water Supply & Sewerage Board
	Dr. P N Ravindra Chief Engineer Cauvery, BWSSB
	Mr. Rohit Kakkar Technical Adviser to Swachh Bharat Mission (Urban) in Ministry of Urban Development CPHEEO
	Mr. Kishore Wadhavane Director (Technical) MCGM / Indian Water Works Association
	Mr. Sanjay Thute DGM- WW VA Tech Wabag Ltd
	Mr. Dinesh Kumar Vision Earth Care

Conference Session CS 05A

DAY 2 19th May	THEME : HEALTHY, GREEN AND CONNECTED CITIES
09:30 – 11:30	Healthy Cities – Sanitation for All 2019
Chair	Mr. Pankaj Jain Managing Director Sulabh Sanitation Mission Foundation
Speakers	Mr. Rohit Kakkar Technical Adviser to Swachh Bharat Mission (Urban) in Ministry of Urban Development CPHEEO
	Mr. Kunal Merchant Permali Wallace
	Ms. Anu RS / Mr. Vinu C Kunjappan Municipal Secretary Allappuzha Municipality
	Mr. Sanjay Deshpande Managing Director Clearford
	Mr. S K Goyal Project Director (Urban Infra) RUDSICO

Conference Session CS 05B

DAY 2 19th May	THEME : HEALTHY, GREEN AND CONNECTED CITIES
09:30 – 11:30	Healthy Cities – Awareness Creation and Community Participation
Speakers	Dr. Himani Tiwari Co-ordinator City Managers Association of Rajasthan Directorate of Local Bodies, Government of Rajasthan
	Ms. Sheital Shetty Editor & Publisher Urban Sanitation

Conference Session CS 05C

DAY 2 19 th May	THEME : HEALTHY, GREEN AND CONNECTED CITIES
11:45 – 13:30	Healthy Cities – Integrated Solid Waste Management
Chair	Mr. G Prakash Commissioner, Commissionerate of Municipal Administration Government of Tamil Nadu
Co-Chair	Mr. B N Pani Municipal Commissioner Rajkot Municipal Corporation
Speakers	Ms. Sandhya Iyer Bengaluru Municipal Corporation
	Mr. Raj Kumar Pillai Managing Director InfraEn India Private Limited
	Mr. Debartha Banerjee Director Sampurn(e)arth Environment Solutions Pvt Ltd
	Mr. Anil Tripathi Founder Trustee Jagruti Foundation
	Ms. Hansu Pardiwala Hari Dharti Pvt Ltd
	Mr. Ashok Kumar Senior VP Zonta Infratech India Private Limited
	Mr. Saurabh Shah Excel Industires
	Mr. Abhishek Gupta Reddonatura
	Mr. Surya Bhan Awari Director Brio Energy
	Mr. Jayant Singh Sr Marketing Manager TATA MOTORS
	Mr. S Sivasubramanian Commissioner Tirunelveli City Municipal Corporation
	Mr. Rakesh Solanki Advisor Jhansi Municipal Corporation
	Dr. Shivakumar Jaykumar Swachh Bharat Mission Kerala

Conference Session CS 06

DAY 2 19 th May	THEME : HEALTHY, GREEN AND CONNECTED CITIES
14:30 – 17:30	Green Cities – Low Carbon, Energy Efficient, Sustainable Built-Environment and Communities
Chair	Dr. Prem C Jain Chairman CII IGBC
Co-Chair	Mr. Gurmeet Singh Chairperson IGBC Mumbai Chapter
Speakers	Mr. A C S Jayapaul Head, South Asia Building Construction Authority, Singapore
	Mr. Saurav Choudhury Architect - Green Buildings, CII IGBC
	Dr. Sujata S Govada Founder & Managing Director UDP International
	Mr. Yogesh Jagtap Chief Manager – IoT Innovation Bajaj Electricals Ltd - Luminaires BU
	Mr. Vivek Jain Segment Marketeer – Smart Cities & Urban Infrastructure, Philips
	Mr. Sundar Muruganandhan Managing Director Superfan (Versa Drives)
	Mr. M Selvarasu Director, LEAD
	Mr. Debashish Chakraborty General Manager Schneider Electric
	Ms. Manisha Matanhelia Director Synergy Environics Ltd
	Ms. Mala Singh Founder & Chairperson, PEC Greening India
	Ms. Bitul Gangal Architect
	Ms. Namrata Mahal Fellow, TERI & Program Associate GRIHA Council
	Ms. Meera Malegaonkar Expert: Green-city; Urban Competitiveness and Well-being Master of Urban Management & Development (Netherlands)
	Dr. Rashi Gupta Vision Mechatronics
	Mr. Dipak Kokate Regional Manager, EESL
	Mr. Jaideep Malviya Secretary General, STFI

Conference Session CS 07

DAY 2 19 th May	THEME : HEALTHY, GREEN AND CONNECTED CITIES
14:30 – 17:30	Connected Cities – Sustainable Urban Transportation, Traffic Management and Networked Cities
Chair	Dr. M Ramachandran Former Secretary Urban Development, Government of India
Speakers	Mr. Soma Vijayakumar Chief General Manager (Transport & Airport) CIDCO Mr. Dilraj K R Project Manager, Facility Management Centre Kochi Metro Mr. Pranav Poddar Director JCL International Ms. Rewa Marathe Research Associate NIUA Mr. Matt McCormick Director International Sales Neha Infra Services Dr. Sujata S Govada Founder & Managing Director UDP International Ms. Preeti Singh Rajawat CEO & Curtor 27 Art Street Mr. Gopal Valecha Asst Vice President – Business Development (It) DIMTS Mr. Arvind Bhatia Vice President (Bus Development) Doppelmayr India Private Limited Mr. Sanjay Bhatia Marketing Head, Govt & STU Tata Motors Mr. Ritesh Parmar Product Manager - Pavement Milling Technology Wirtgen India Pvt Ltd Mr. Aahan Sethi Director Gemini Power Hydraulics Pvt Ltd Mr. Bharat Gupta Director Vision Mechatronics Pvt. Ltd

Participative Cities

DAY 2 19 th May	Open House Citizen Interface
18:00 – 19:30	Special Interactive session with Mayors, City Managers, RWA, NGO, CBO
Moderator	Mr. V Suresh Advisor, Good Governance India Foundation Former, CMD HUDCO
Panelists	Mr. Suraj Nandakumar Co-Founder Recity Network Pvt Ltd
	Dr. Sujata S Govada Founder & Managing Director UDP International
	Mr. PK Das PK Das Associates
	Ms. Mala Singh Founder and Chairperson PEC Greening India
	Ms. Ritu Verma Founder Director Urban EXPLORERS
	Mr. Shakti Singh Chaudhary Mayor Gangtok Municipal Corporation
	Ms. S Neerada Educationist
	Ms. Preeti Singh Rajawat CEO & Curator 27 Art Street
	Ms. Mamta Gupta Mayor, Rewa M.P
	Ms. Harita V Kumar Director, DUA Kerala
	Mr. S Sivasubramanian Municipal Commissioner Tirunelveli City Municipal Corporation
	Ms. Chandrika Chandrakar Mayor, Durg Municipal Corporation
	Mr. Pramod Dube Mayor, Bhilai Municipal Corporation
	Mr. Kishore Rai Mayor, Bilaspur Municipal Corporation
	Col. Sreedharan Chairman, Covai Property Centre
	Ms. Rajani Pantham Seshasai Mayor, Rajahmundry Municipal Corporation

Conference Session CS 08A

DAY 3 20 th May	THEME : INCLUSIVE, DIGITAL AND INTEGRATED CITIES
09:30 – 11:15	Inclusive and Humane Cities – Pradhan Mantri Awas Yojana (PMAY)
Chair	Mr. Manoj Soni Project Director (Housing) RUDSICO
Co-Chair	Mr. A Shankar National Director Jones Lang Lasalle
Speakers	Ms. Aarti Harbhajanka Associate Director KPMG
	Ar. Oormi Kapadia MHADA
	Mr. Binu Francis Programme Officer Kudumbashree
	Mr. Nakshatra Roy Head BD and Marketing TATA Housing
	Mr. Sanjay Dhikle District Superintendent of Land Records Slum Rehabilitation Authority (SRA)
	Ms. Jayashree Kurup Editorial Head Magic Bricks
	Mr. Vikram Saraph Architect Transenviro
	Mr. Nelvin Raphael Architect & Urban Designer C-Earth
	Mr. V Sambamurthy Deputy General Manager National Housing Bank (NHB)
	Mr. Sanjay Patil Slum Rehabilitation Authority (SRA)



Conference Session CS 08B

PANEL DISCUSSION

DAY 3 20 th May	THEME : INCLUSIVE, DIGITAL AND INTEGRATED CITIES
11:30 – 13:00	Affordable Housing Challenges and Way Forward
Moderator	Ms. Faye D'souza Executive Editor Mirror Now
Panelists	Mr. A Shankar National Director Jones Lang Lasalle Ms. Jayashree Kurup Editorial Head Magic Bricks Mr. V Suresh Advisor, Good Governance India Foundation Former, CMD HUDCO Mr. Nakshatra Roy Head BD and Marketing TATA Housing Ms. Aarti Harbhajanka Associate Director KPMG Mr. Sanjiv Agarwal Founder Chairman Good Governance India Foundation Editor & Publisher - Urban News Digest

Conference Session CS 09A

DAY 3 20 th May	THEME : INCLUSIVE, DIGITAL AND INTEGRATED CITIES
09:30 – 11:15	Geospatial Solutions for Indian Cities
Chair	Ms. Uma Adusumilli Chief Urban Planner MMRDA
Speakers	Mr. M Rajadurai Senior Manager - Product Success Bentley Systems Mr. Shailesh Shankar Manager – Sales Engineering DigitalGlobe Mr. Abhay Kimmatkar Joint Managing Director ADCC Infocad Mr. Pritish Bisoyi National Manager-Key programs Hexagon Mr. Pradeep Thomas Divisional Manager – Pre-Sales ESRI

Conference Session CS 09B

DAY 3 20th May	THEME : INCLUSIVE, DIGITAL AND INTEGRATED CITIES
11:30 – 13:00	Digital Cities, Smart Governance Roadmap for a City
Chair	Mr. R K Vijayvergia Senior Town Planner Directorate of Local Bodies, Government of Rajasthan
Speakers	Dr. S S Mantha Former Chairman AICTE MHRD, Government of India Mr. Gopu Chandran Delivery Head, Public Sector UST Global Mr. Anoop Chaturvedi Regional Manager, Technology Consulting Hewlett Packard Enterprise Mr. PV Sreenath Independent Consultant and Advisor Mr. Vasanth Kumar Business Manager CMA Chennai

Conference Session CS 10

DAY 3 20th May	THEME : INCLUSIVE, DIGITAL AND INTEGRATED CITIES
14:30 – 16:00	Integrated Cities and New Vision
Speakers	Dr. Sudhir Krishna Former Secretary Ministry of Urban Development, Government of India Mr. Prem Sharma Dholera Smart Cities Mr. C Velan Vice President TATA Realty Ramanujan IT City Mr. Rajesh Phadke Chief Architect and Planner GIFT CITY Ar. Kanchan Sarbhukan Sidhaye Associate New Town Kolkata

CAPEx underlines Smart & Sustainable Built Environment, Technologies for Nation Building and Modern Construction Systems



Municipalika 2017 similar to its previous editions had organised the much anticipated special technical sessions as part of CAPEX. These sessions cov-

Among the important topics covered were Walling & Roofing options; Innovative use of Industrial Wastes like Fly ash / Blast furnace slag / GGBS / FaL-

options; Strengthening Testing and Validation Facilities for Quality Assurance; Thermal Efficient products for Walling, roofing; Glazing & Energy Efficient Fenestrations; Energy Saving Star Products for Building Services; Solar Thermal and Photovoltaic Products; Building Automation & Smart Buildings; Landscape & Hardscape Products; Prefabricated and Precast Construction in Building and Infrastructure; Innovative Construction Practices using Modern Form works and Reducing Slab cycle; Composite Steel-Concrete Construction; Cost Effective Housing and Building Technologies; Underground Buried Utilities and infrastructure and NO DIG & Tunnel Boring Technologies; Plumbing fixtures & applications; Water Saving and conservation products and much more.

The sessions were highly appreciated for being interactive and being helpful especially for those who



ered a variety of subjects such as Innovative Building Materials and Technologies for Building & Infrastructure applications; Tecno-legal regime for acceptance of new products & approval systems including Standards, Testing and Certification; Green Building Technologies & Products; Modern Construction Systems, Practices and Technologies; Water Supply & Sanitation Products.

The sessions witnessed attendance from a variety of specialists who shared knowledge and explored diverse aspects in the building, construction and engineering sector. Co-located with Municipalika, CAPEX was a definitive one-stop shop for technologies, processes, systems, materials, supplies, products and equipment for Construction, Architecture, Planning and Engineering.

G; Structural systems including composite materials; Provisions in Building Regulations, Development Control Rules and Codes to permit innovative

attended to share and gather information regarding the latest trends and technology related to the construction, building and engineering sector.



Technical Session TS 01

DAY 1 18 th May	THEME : EMERGING BUILDING BLOCKS AND TECHNOLOGIES FOR NATION BUILDING
14:00 – 16:00	Innovative Building Materials and Technologies for Building and Infrastructure Applications
Chair	Mr. Shashi Kant Advisor Confederation of Construction Products and Services (CCPS)
Speakers	Mr. Pradeep Ghumare Director NOE Formwork India Pvt Ltd/ IND-Tech Consultants
	Mr. Sachin Chugh National Manager SIKA India Pvt Ltd
	Mr. Sunny Surlaker Director MC-Bauchemie India Private Limited
	Mr. Abhijit Gawde Godrej Constructions
	Mr. Javed Shaikh Regional Manager Pidilite Industries
	Mr. Satish Kumar Country Manager Deceunick India
	Mr. Mahesh Chandran Senior Manager - Sales Wirtgen India Pvt. Ltd

Technical Session TS 02

DAY 1 18 th May	THEME : EMERGING BUILDING BLOCKS AND TECHNOLOGIES FOR NATION BUILDING
16:15 – 17:45	Tecno-legal regime for acceptance of new products and approval systems including Standards, Testing & Certification
Chair	Mr. Shashi Kant Advisor Confederation of Construction Products and Services (CCPS)
Speakers	Mr. Sanjay Pant Director and Head Civil Engineering Bureau of Indian Standards (BIS)
	Ar. Deepak Gahlowt Convener Confederation of Construction Products and Services (CCPS)

Technical Session TS 03

DAY 2 19 th May	THEME : GREEN BUILDING TECHNOLOGIES AND MODERN CONSTRUCTION SYSTEMS
09:30 – 11:30	Green Building Technologies and Products
Chair	Dr. Prem C Jain Chairman CII IGBC
Speakers	Mr. S Karthikeyan Senior Counsellor CII IGBC Dr. Rashi Gupta Director Vision Mechatronics Mr. Sundar Muruganandhan Managing Director Superfan (Versa Drives) Mr. Sibil Ittyavirah Regional Manager Pidilite Industries Ms. Madhavi Patri General Manager HNG Float Glass Ltd Mr. Sanjay Biswas Sr GM & Head – KAM & BLISS Bajaj Electricals Ltd - Luminaires BU Mr. Shreekant Phanse Sr Manager, Lighting Application Specialists, Professional Channel-Western Region Philips Mr. Tushar Sinkar DGM - R&D & Technical Nippon Paint Mr. Pradeep Chaudhari Regional Manager –West McCoy Soudal Sealant Adhesive & foam Pvt Ltd



Technical Session TS 04

DAY 2 19 th May	THEME : GREEN BUILDING TECHNOLOGIES AND MODERN CONSTRUCTION SYSTEMS
11:45 – 13:15	Modern Construction Systems, Practices and Technologies
Chair	Mr. Manoj Soni Project Director (Housing) RUDSICO
Speakers	Mr. Jayan A Head - Process & Innovation L&W Construction Pvt Ltd, Singapore
	Mr. Bhvanesvaran Muthu General Manager Integrated Precast Solutions Pte Ltd
	Er. Ganesh Kamat Consultant
	Col. Sanjay Adsar GM, B. G. Shirke Construction Technology Pvt. Ltd.
	Mr. S K Gupta Director (Technical) Hindustan Prefab Limited
	Mr. S J Vijay Chairman SALMON LEAP
	Mr. Sumit Raina CEO Shubham Aqualink

Technical Session TS 05

DAY 2 19 th May	THEME : GREEN BUILDING TECHNOLOGIES AND MODERN CONSTRUCTION SYSTEMS
14:30 – 16:00	Water Supply and Sanitation Products
Chair	Mr. Sharath Rao Chairman Indian Plumbing Association (IPA)
Speakers	Mr. Abdul Matheen Director Mechanical IAPMO
	Mr. Yogesh Shah Assistant General Manager – Marketing Astral Pipes

Valedictory Session

20th May 2017 | Time: 16:15 - 17:30

DAY 3 – 20 th May 2017	
16:15 – 17:30	
Chairman	Dr. Sudhir Krishna Former Secretary Urban Development, Government of India
	Report on 14th Municipalika and CAPEX 2017 by Mr. V Suresh Advisor, Good Governance India Foundation and Former CMD HUDCO
	Remarks by Mr. Sanjiv Agarwal Founder and Trustee, Good Governance India Foundation Chairman and CEO, Fairfest Media Limited
	Valedictory Address by Dr. Sudhir Krishna Former Secretary Urban Development, Government of India
	Announcement of Awards and Distribution Mr. G Ibrahim Executive Director, Good Governance India Foundation Managing Director and CMO, Fairfest Media Limited
	Vote of Thanks











14th International Exhibition & Conference on Smart & Sustainable City Solutions



Co-located with



18, 19, 20 May 2017

CIDCO Exhibition Centre

Navi Mumbai, Maharashtra, India

Conference Sessions Schedule

Day 1, 18th May 2017 • Inaugural Session		
08:00 – 09:30 hrs	Delegate Registration	
10:00 – 11:30 hrs	Conference Inaugural Session	
11:30 – 13:00 hrs	Exhibition Inauguration & Walk around by dignitaries and delegates	
13:00 – 14:00 hrs	Networking Lunch	
Day 1, 18th May 2017 • THEME: Smart & Safe Cities		
14:00 – 15:45 hrs	Conference Session CS 01: <i>Smart & Sustainable Cities - Way Forward</i> Conference Session CS 01A: Progressive Cities <ul style="list-style-type: none">Ease of doing BusinessResource mobilization and Financial Management <div>HALL - A</div>	Conference Session CS 02: <i>Safe & Resilient Cities - Fire & Life Safety</i> <ul style="list-style-type: none">National Building Code of India 2016City Fire Safety and Protection Capabilities of Emerging CitiesDisaster Mitigation and ManagementTechnologies and SolutionsWay forward <div>HALL - B</div>
15:45 – 16:00 hrs	Tea Break	
16:00 – 17:45 hrs	Conference Session CS 01B: Smart Cities <ul style="list-style-type: none">100 Smart Cities Mission and best PracticesReforms for AMRUT / Smart CitiesWhat makes a Smart City competitive, sustainable, resource rich and inclusiveKey features for a SMART/ AMRUT cityDrivers and Enablers <div>HALL - A</div>	Conference Session CS 03: Secure Cities <ul style="list-style-type: none">Anti- terror Capabilities, Homeland SecurityGender Sensitive CitiesPolicing and SurveillanceCommunity based Security Support Systems <div>HALL - B</div>
17:45 – 18:00 hrs	Visit to Exhibition	
18:30 – 20:00 hrs	Vision Address: Future Cities <div>HALL - A</div>	
20:00 – 21:30 hrs	Networking Dinner	
Day 2, 19th May 2017 • THEME: Healthy, Green & Connected Cities		
09:30 – 11:30 hrs	Conference Session CS 05: <i>Healthy Cities Swachh Bharat Mission 2019</i> Conference Session CS 05A: Sanitation for All by 2019 <ul style="list-style-type: none">Individual ToiletsPublic and Community ToiletsSchool ToiletsSafe and Hygienic disposalTechnology options and Delivery Systems Conference Session CS 05B: Awareness Creation and Community Participation <ul style="list-style-type: none">Capacity BuildingI E CRole of NGOs <div>HALL - A</div>	Conference Session CS 04: Healthy Cities Integrated Water Management <ul style="list-style-type: none">Water Supply, Treatment and Distribution24x7 Water SupplyMeteringReduction of T and D issuesWater ConservationRainwater harvesting, Aquifer RechargingGround Water Use <div>HALL - B</div>
11:30 – 11:45 hrs	Tea Break	
11:45 – 13:30 hrs	Conference Session CS 05C: Integrated Solid Waste Management <ul style="list-style-type: none">Collection, Segregation and Transport of Solid WasteRecycling - ESP building materials, plastics and E-wasteWaste-to-EnergyHygienic and Safe Sanitary LandfillsComposting and RDFE-WasteConstruction and Demolition (C&D) WasteBio Medical Waste handling (Autoclave, Hydroclave, Microwave and Incineration) <div>HALL - A</div>	<ul style="list-style-type: none">Waste Water Treatment optionsWaste Water Recycling and reuseDesal UnitsCleaning of Rivers and Water Bodies <div>HALL - B</div>
13:30 – 14:30 hrs	Networking Lunch and Visit to Exhibition	

Contd on Page 2

14th International Exhibition & Conference on Smart & Sustainable City Solutions



Co-located with



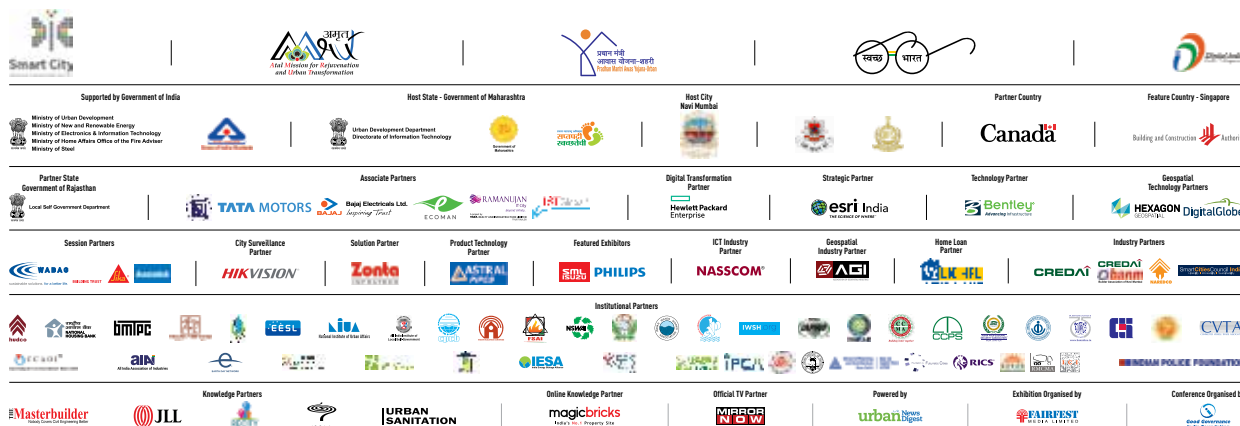
18, 19, 20 May 2017

CIDCO Exhibition Centre

Navi Mumbai, Maharashtra, India

Conference Sessions Schedule

Day 2, 19th May 2017 ● THEME: Healthy, Green & Connected Cities		
14:30 – 17:30 hrs	Conference Session CS 06: <i>Green Cities Low Carbon, Energy-Efficient, Sustainable Built-Environment and Communities</i> <ul style="list-style-type: none"> Sustainable Development options Passive Designs for Energy Efficiency Active Design and Application for Energy Efficiency Use of Renewable Energy Solar Cities Energy Efficiency in Street Lighting & Household Lighting 	Conference Session CS 07: <i>Connected Cities Sustainable Urban Transportation, Traffic Management & Networked Cities</i> <ul style="list-style-type: none"> Paradigm Shift in Urban Mobility with Effective Public Transportation MRT, BRT, LRT Transit Oriented Development Non-Motorised Options, Walkability Transport and Traffic Infrastructure Parking Airport and Air Connectivity Pavement Rehabilitation
18:00 – 19:30 hrs	Participative Cities - Open House Citizen Interface: Special Interactive session with Mayors, City Managers, RWA, NGO, CBO	
19:30 – 21:30 hrs	Networking Dinner	
Day 3, 20th May 2017 ● THEME: Inclusive, Digital & Integrated Cities		
09:30 – 11:15 hrs	Conference Session CS 08: <i>Inclusive & Humane Cities - Pradhan Mantri Awas Yojana (PMAY)</i> <ul style="list-style-type: none"> Housing for all by 2022 & Slum-less Cities Optimisation of Resources for Land, Building Materials and Technology Mortgage and Project Financing options RERA PPP and non-government initiatives 	Conference Session CS 09A: <i>Geospatial Solutions for Indian Cities</i> <ul style="list-style-type: none"> Geo-Spatial Technologies GIS-GPS Applications
11:15 – 11:30 hrs	Tea Break	
11:30 – 13:00 hrs	Panel Discussion <ul style="list-style-type: none"> Affordable Housing : Challenges and Way Forward Moderator : Ms Faye D'Souza Editor, Mirror Now	Conference Session CS 09B: <i>Digital Cities, Smart Governance Roadmap for a City</i> <ul style="list-style-type: none"> Next Level E-Governance Solutions for City Level Services Retro Fitting City Communications
13:00 – 14:30 hrs	Networking Lunch & Visit to Exhibition	
14:30 – 16:00 hrs	Conference Session CS 10: <i>Integrated Cities and New Vision</i> <ul style="list-style-type: none"> Integrated, Self-Contained Cities New Town Development, Twin Cities, Satellite Cities 	
16:00 – 16:15 hrs	Tea Break	
16:15 – 17:30 hrs	Valedictory Session and Awards Distribution	



Emerging Building Blocks for Smart & Sustainable Built Environment



18, 19, 20 May 2017
 CIDCO Exhibition Centre
 Navi Mumbai, Maharashtra, India

Technical Sessions Schedule **Hall-C**

Day 1, 18th May 2017 • Inaugural Session	
08:00 – 09:30 hrs 10:00 – 11:30 hrs 11:30 – 13:00 hrs 13:00 – 14:00 hrs	Delegate Registration Conference Inaugural Session Exhibition Inauguration & Walk around by dignitaries and delegates Networking Lunch
Day 1, 18th May 2017 • THEME: Emerging Building Blocks and Technologies for Nation Building	
14:00 – 16:00 hrs	Technical Session TS 01: Innovative Building Materials and Technologies for Building and Infrastructure Applications <ul style="list-style-type: none"> Cement, Steel & Allied Materials Walling & Roofing options Innovative use of Industrial Wastes like Fly ash / Blast furnace slag / GGBS / FaL-G Structural systems including composite materials Doors, Windows, Shutters Hardware Water Proofing and damp proofing options Flooring and Cladding
16:00 – 16:15 hrs	Tea Break
16:15 – 17:45 hrs	Technical Session TS 02: Tecno-legal regime for acceptance of new products and approval systems including Standards, Testing & Certification <ul style="list-style-type: none"> National Building Code of India 2016 Provisions in Building Regulations, Development Control Rules and Codes to permit innovative options Strengthening Testing and Validation Facilities for Quality Assurance Build Materials and Products Super Market / Malls / Retail outlets - a la Home Stores
17:45 – 18:00 hrs	Visit to Exhibition
18:00 – 18:30 hrs	Vision Address: Future Cities
20:00 – 21:30 hrs	Networking Dinner
Day 2, 19th May 2017 • THEME: Green Building Technologies and Modern Construction Systems	
09:30 – 11:30 hrs	Technical Session TS 03: Green Building Technologies and Products <ul style="list-style-type: none"> Thermal Efficient products for Walling, roofing Glazing & Energy Efficient Fenestrations Energy Saving Star Products for Building Services Solar Thermal and Photovoltaic Products Sound insulation Illumination & Lighting HVAC Green interiors Sealants Environment Friendly and Functional Paints and Surface Treatments for various situations Building Automation & Smart Buildings Landscape & Hardscape Products
11:30 – 11:45 hrs	Tea Break
11:45 – 13:15 hrs	Technical Session TS 04: Modern Construction Systems, Practices and Technologies <ul style="list-style-type: none"> Fast Track Construction Solutions Prefabricated and Precast Construction in Building and Infrastructure Innovative Construction Practices using Modern Form works and Reducing Slab cycle Composite Steel - Concrete Construction Construction Equipments & Machinery Modern Developments in High Strength Concrete Construction Cost Effective Housing and Building Technologies Underground Buried Utilities and infrastructure and NO DIG and Tunnel Boring Technologies Water Saving and conservation products, low flow fittings, fixtures and equipments
13:15 – 14:30 hrs	Networking Lunch & Visit to Exhibition
14:30 – 16:00 hrs	Technical Session TS 05: Water Supply & Sanitation Products <ul style="list-style-type: none"> Plumbing fixtures & applications Water Saving and conservation products, low flow fittings, fixtures and equipments
18:00 – 19:30 hrs	Participative Cities - Open House Citizen Interface: Special Interactive session with Mayors, City Managers, RWA, NGO, CBO





The Detailed Report of the 14th MUNICIPALIKA and CAPEX was presented by V Suresh, Advisor, Good Governance India Foundation in the Valedictory Session. The following major points of observations and areas of recommendations emerged from the deliberations of the conference sessions:

- The agenda for creating clean Cities with total sanitation as part of Swachh Bharat Abhiyan was considered the most important intervention for changing the landscape of the country.

- The conference noted that in addition to the policy support from Government of India, State and Local Governments, the programme can be successful only with the full participative involvement of the citizens. The attitudinal and behavioural changes needed among Citizens for embracing Sanitary options was the felt need and require massive communication and dissemination actions using all media options. To that extent it has to be made a people's movement through the launch as Jan Andolan.

- The success achieved in various states for sanitation spread and Open Defecation Free (ODF) environment was considered in depth and time frame for achieving the goals by 2018 was also recognised with action plans.

- Community toilets with socially, culturally acceptable, appropriate, affordable and indigenous options need to be encouraged.

- School Toilets need to be provided for all schools as fast track initiative.

- The technology and financing options for total sanitation should take in to account the scale and size of cities and provision of sanitary options with safe disposal systems.

- There is a need for making Toilets for all linked with Water for all as an integrated approach (Thaal Mel).

- In addition the major thrust has to be on cleanliness in the cities through integrated solid waste management options for Door to Door collection, segregation, transportation, treatment and safe disposal. Decentralised options are preferable. Utmost efforts should be made for converting the waste to compost, refuse derived fuel (RDF) and waste to energy through various technology options.

- All efficient water management system including waste water recycling has to be introduced compulsorily and revive traditional systems and also involve communities to deal with the present crisis. Water demand management with reduced fresh water demand of 90 lpcd as against 135 lpcd and use of treated waste water has become a necessity. Water conservation techniques need to be implemented in all building



projects to bring in 35 to 40% water savings. Rainwater harvesting and aquifer recharging has to be made compulsory. Indiscriminate tapping of ground water resources has to be controlled.

- Disaster mitigation and preparation to deal with natural and manmade disaster has to be one of the major thrust areas that require attention at the local body level. Most of the cities are ill-prepared. City Disaster Management plans should be prepared and the multi disciplinary team are fully coordinated to get into operational gear when disaster strikes. Assessing / documenting the natural capital within cities including preparation geo referenced maps, emergency map plans etc. are some of the implementations. Proactive Pre-Disaster Mitigation efforts should be given priority than reactive post disaster response.

- Fire Safety preparation and capacity building of Human Resources, Equipments and Speedy Response system was the need of the hour and Indian Cities need to do a lot for gearing up. The provisions of the National Building Code of India 2016 should be utilised for revamping the building bye-laws development control rules and planning standards.

- Safety and Security of Citizens was considered as most important need and the efforts through appropriate interventions and city capabilities for coping up with the same through proper Surveillance and Response systems was stressed.

- The City Master Planning should have inclusive planning approach with safety, security issues also kept in view.

- Keeping in view the large scale automobile revolution in cities, there is urgent need to encourage and strengthen public transportation modes and using less polluting and energy efficient public transportation modes. For this mass rapid transport (MRT and BRT) options would need increased applications.

- Mobility management including strategies to avoid / address crowding / congestion need to be addressed on a priority basis including stress on non motorised transport options. Transit Oriented Development (TOD) planning options will help this in big way. Cycle track network and pedestrian movement space more so for the disadvantaged section movement need to be created and serviced.

- City space are for people and not necessarily cars.

- Considering the larger impact of global warming and climate change, there is a major need to adopt, technologies and practices, which will contribute to creating, environment friendly, ecologically appropriate and energy efficient and saving and built environment. A major attitudinal change of mind, body, heart and soul is needed in this connection – a paradigm shift. The need for creation of “integrated green cities” has clearly emerged for which all encouragement should be green, which will contribute to Integrated Water Management (30 to 40% saving), Integrated Energy Management (40 to 45% saving), Integrated Waste Management (improving health and physical quality of life) and increased Green Cover (for clean and green environment).



- Considering the major challenges in housing in cities as well as provision of shelter for slum-dwellers, under Housing for all by 2022, through the 20 million urban homes the predominant thrust has to be on weaker sections and low-income group and through optimisations of all resources, land, finance, building materials and technologies, for the speedy construction of affordable homes.

- The governmental initiatives for RERA for regulatory framework for protection of consumer interests was welcomed and hoped all states will soon establish RERA on the lines of Maharashtra RERA which is already established from May 2017.

- Keeping in view the limited land and high costs, low rise high delivery development has become necessary. The safety aspects from all point of view have to be kept in view and the building bye laws and enforcement have to take care of the same.

- The need for enhancing the urban land foot print from 4 to 8% was considered as an imminent action area for taking care of land needs for the doubling of urban population from 28 (2001) to 56 crores (2025).

- For this Governments at the centre, state and local level has to create an enabling environment to get participation of all stakeholders and remove bottle necks and support with additional resources on land, finance and building materials.

- As part of the slum free cities development strategy, in addition to efforts for providing adequate and affordable shelter and basic services equal attention should be given for poverty alleviation, job creation and skill development.

- Inclusive Planning to provide for the marginalised, poor and disadvantaged is a major message for future city planning – include the Master Plan for Slum free

housing in the CDP and in Building Regulations in line with NBC 2016.

- The potential of land as a resource has to be fully tapped for enhancing the resource base as well as providing equitable and inclusive solutions benefiting all groups.

- Considering the limited availability of land there is sufficient scope to increase FAR/FSI including innovative TDR commensurate with infrastructure addition.

- As a major housing strategy increased efforts for institutionalised rental housing options should be encouraged and made part of delivery systems.

- With a view to promote 100 Smart Cities (upgradation and retrofitting of brown field cities including cluster of white field cities and creation of green field cities) and 500 AMRUT Cities, an integrated and holistic approach is needed to bring in the smart elements in all infrastructure and built environment components as well as in the operation, management and service delivery for the city development needs with 24x7 service life.

- For this ICT becomes a major integrated enabler for back up infrastructure and not necessarily driver.

- Modern tools of Geo-Spatial

Technologies with use of Remote Sensing Tools and Digital mapping should be increasingly adopted. For this GIS/GPS tools should be utilized for city based information system and property mapping, natural resources and planning for development and infrastructure both above and below grounds.

- E-Governance to be given top priority for transparency, information sharing, provision of services to the citizens in user friendly and efficient manner - taking service delivery to the door steps of the people. This has to be a two way platform between the service providers and customer and citizens.

- E-Governance and M-Governance would be the Next-Gen change in urban areas for the increasing number of e-Citizens

- The initiatives for Public-Private-People's-Participation and Partnership (PPPPP) to be encouraged for housing and infrastructure initiatives for all groups for technological, financial and managerial resource tie up.

- There is an imperative need to strengthen local bodies through capacity building at the level of Mayors, Councillors, Commissioners, City Managers, service providers to deal with the multi-dimensional development needs to make cities work. Appropriate training modules suiting each groups have to be evolved. The need for Urban Services Regulator is also been one of the areas of reform recommendations.

- The intense potential and needs for galvanising the citizen's engagement and people's participation through CBO/ NGO/RWA and Civic Society Groups has come into sharp focus for partnership development and ensuring active citizen's participation.

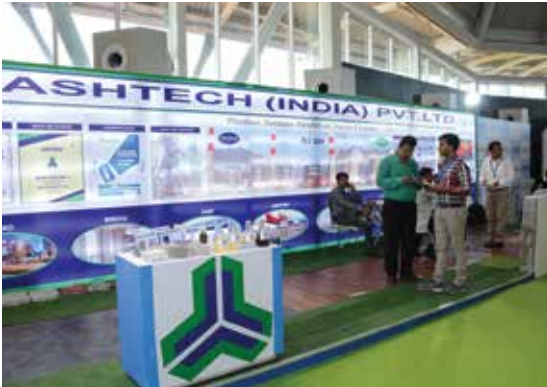
- Professionalism and transparency of functions is required for efficient city management through capacity building programme or appropriate out sourcing or partnerships.







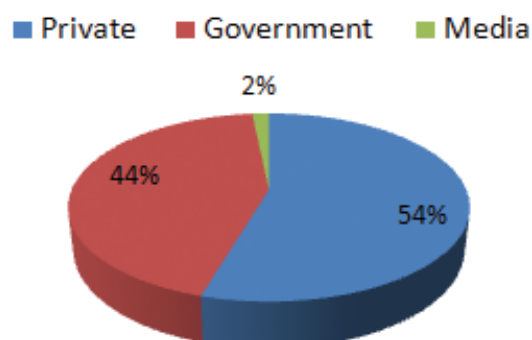




Visitor Statistics

Private	-	2,874
Government	-	2,308
Media	-	85
Total Visitors	-	5,267

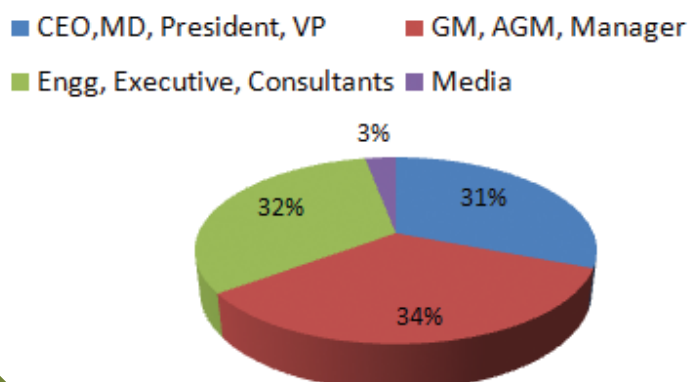
Visitors Statistics



Trade Visitors

CEO,MD, President, VP	-	889
GM, AGM, Manager	-	973
Engg, Executive, Consultants	-	927
Media	-	85
Total Trade Visitors	-	2,874

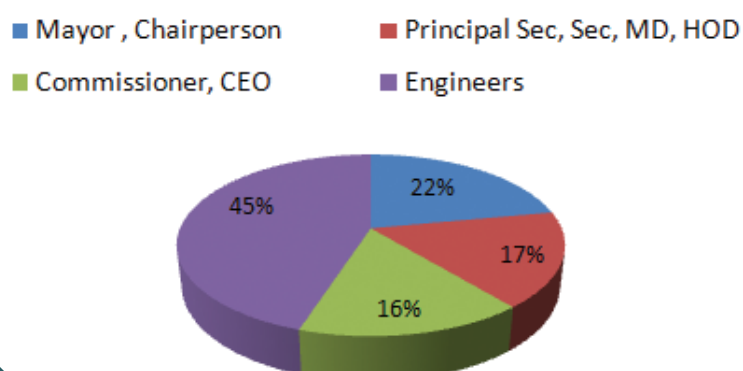
Trade Visitors



Government Visitors

Mayor , Chairperson	-	22%
Principal Sec, Sec, MD, HOD	-	17%
Commissioner, CEO	-	16%
Engineers	-	45%

Government Visitors



Exhibition Statistics

Segments	- 10
Exhibitors	- 170+
Exhibition Area	- 12,500 sq m

Exhibition: Municipalika + CAPEX

The exhibition, one-of-a-kind for showcasing technologies, services, products, equipments, machineries and managerial systems incorporated into a common space of over 12,500 sq m. It received all-round appreciation from all dignitaries and visitors. Over 170 Exhibitors displayed including live demonstrations for new technologies. Over 5000 visitors benefitted from the display. Among the exhibitors, there were country, state and city pavilions too, as well as displays by urban parastatals. This

combination of theory and practices, of discussion backed by actual demonstration, was found to be very useful by the visitors in various technical areas of city management and governance.

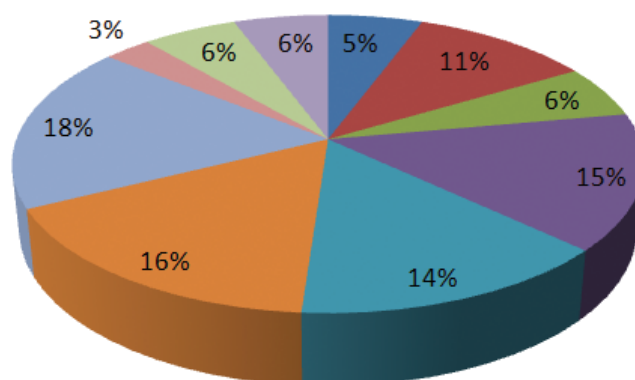
Exhibition Segments

Lighting/ E-Governance/ Media/ Water & Waste Water/ UD Department & Municipal Corporation/ Solid Waste Department & recycling/ Construction & Building Technology/ Environment & Pollution Control/ Urban Industrial Development/ Association

Exhibitor Data

Name	Number of Exhibitors
Lighting	10
E-Governance	19
Media	10
Water & Waste Water	26
UD Department & Municipal Corporation	25
Solid Waste Department & recycling	29
Construction & Building Technology	32
Environment & Pollution Control	5
Urban Industrial Development	10
Association	10
Total	176

Exhibit Segments



MUNICIPALIKA 2017 AWARD LIST

Best City Initiatives

INDORE SMART CITY
NAVI MUMBAI MUNICIPAL CORPORATION
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
BHOPAL SMART CITY DEVELOPMENT CORPORATION LTD

Best State Initiatives

GOVERNMENT OF RAJASTHAN - URBAN DEVELOPMENT, HOUSING & LSG DEPARTMENT

Best Municipal Solutions

TATA MOTORS LIMITED
SML ISUZU LIMITED
ECOMAN ENVIRO SOLUTIONS PVT. LTD.
REDDONATURA INDIA PVT. LTD.
MAHINDRA CONSTRUCTION EQUIPMENT
ZIGMA GLOBAL ENVIRO SOLUTIONS PVT LTD
ZONTA INFRATECH PVT LTD

Most Innovative Product

ALOM POLYEXTRUSIONS LIMITED
ASHTECH (INDIA) PVT LTD
WILO MATHER AND PLATT PUMPS PVT LTD

Best Technology Solutions

BENTLEY SYSTEMS INDIA PVT LTD
ESRI INDIA TECHNOLOGES LTD
INNOWAVE IT INFRASTRUCTURES LIMITED

Best Integrated Urban Solutions

PRAMA HIKVISION INDIA PVT LTD
TATA REALTY AND INFRASTRUCTURE LIMITED

Best Indoor Display Pavilions

BAJAJ ELECTRICALS LIMITED
BUILDING AND CONSTRUCTION AUTHORITY, SINGAPORE
CANADIAN HIGH COMMISSION
GEMINI POWER HYDRAULICS PVT LTD

Best indoor Display Booths

PHILIPS INDIA LTD.
US TECHNOLOGY INTERNATIONAL PVT LTD
SIKA INDIA PVT LTD
TATA STEEL LIMITED
LUBI INDUSTRIES LLP
WIRTGEN INDIA PRIVATE LIMITED

Special Appreciation Memento for Consolidated Presence

GOVERNMENT OF TAMILNADU - COMMISSIONERATE OF MUNICIPAL ADMINISTRATION





Supporting Organisations



Supported by Government of India



Host City Navi Mumbai



Partner Country



Feature Country - Singapore



Partner State Government of Rajasthan



Associate Partners



Associate Partners



Digital Transformation Partner



Strategic Partner



Technology Partner



Geospatial Technology Partners



Session Partners



City Surveillance Partner



Solution Partner



Product Technology Partner



Featured Exhibitors



ICT Industry Partner



Geospatial Industry Partner



Home Loan Partner



Industry Partners



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