KONE’s UV-C based self-cleaning solution for escalator and autowalk handrails is designed keeping your safety and wellbeing in mind. This advanced Handrail sanitizer uses ultraviolet light to gradually disinfect escalators and autowalk handrails, and this happens by reducing the reproduction of microorganisms such as bacteria or viruses. Now hold on with confidence, safety and assurance of KONE.
A Nice Day Begins with Clean Water

When technology meets aesthetics…

- Redefining innovation for the bathroom with our latest built-in filter faucets.
- Filter 99.9% of bacteria and pathogenic microorganisms in water.
- High Flow Rate: Reach 7 liters per minute.
- Stylish and patented design.
Faucets
08 Maintaining proper hygiene has become even more important in order to contain the spread of any disease-causing virus or bacteria. This is driving sanitaryware brands to introduce products that are touchless and backed by cutting-edge technology

Technology
12 Designing Ready-to-Approve Building Plans Online

Feature
Re-Conceptualizing, Re-Configuring, Re-Designing Offices
14 Office designers, developers, and furnishing companies share their outlook on the emerging constraints and challenges in office layouts as the new normal, post-Covid, places fresh demands on office design

Architecture & Design
18 Office: Sanjay Puri Architects create energy-efficient offices that open into outdoor spaces
20 Office: Designed by architecture and interior design firm aoe, the project highlights relationships between architecture, nature, society, and the local people
24 Studio: K Design Studio uses eco-friendly building materials to make the space totally sustainable
28 Retail cum Office: Atelier Moderno collaborated with WETSTYLE Design Lab team to create a space that draws upon core elements of the brand’s identity and ideology
31 Mixed use: The Cubist Art-inspired ten-story property designed by Ilan Pivko Architects is set to create new benchmarks for quality and value
34 Mixed Use: T.ZED Architects wraps a new residential community in Dubai with the American thermally-modified tulipwood
Adventurer
Showstopper
Connoisseur
Technophile

WHAT'S YOUR CLIENT'S PERSONALITY?

Watertec presents total bathroom & plumbing solutions to suit every client's personality!

Faucets  Sensor Faucets  Kitchen Faucets  Single Lever Concealed Divertors
Multi Function Rain Showers  Table Top Basins  Sanitaryware  Bathroom Accessories

A Brand of Watertec  Global Partner Brands

Watertec (India) Pvt. Ltd., Corporate Office: Gopal Bagh, #1062, Avinashi Road, Coimbatore - 641 018, India. Call: +91 422-2243439 (5 Lines) | E-mail: marketing@watertecindia.com | Visit: watertecindia.com

Toll-free: 1800 121 2191
Contents

Library: MAD's Wormhole Library serves as a multifunctional building that allows visitors to read, enjoy views of the sea, and attend open-air performances

Temple: Shirdi Sai Baba Temple in Koppur is a collaborative project by Shilpa Architects and rat[LAB] Studio

Real Estate

Mindspace Business Parks REIT commits to Climate Group's EV100 initiative at Climate Week NYC 2020

Integrated Townships: Covid-19 has underscored the advantages of self-managed mini-ecosystems with higher safety and security, open spaces, sanitation and control

ICDBP Selects Indian start-up Facilio to deliver on a Connected & Sustainable Built Environment

NSCI confers 7 Construction Safety awards to Shapoorji Pallonji Engineering & Construction

JLL signs WGBK Net Zero Carbon Building Commitment to achieve global net zero carbon emissions by 2030

Event

Water Conservation & Wastewater Management: Messe Frankfurt India's digital trade fair - ISH India powered by IPA

Subscription

€1500*/ One Year

*plus courier charges Rs. 300 for NCR & Rs. 600 for rest of India.

All payments in favour of NBM Media Pvt. Ltd. New Delhi. No part of this publication may be reproduced by any means without prior written permission from Editor.

MGS - Modern Green Structures & Architecture is not responsible for statements made, or for opinions expressed, in the articles published in this volume and publisher accepts no responsibility for accuracy of information, errors or omissions and rejects any claims arising out of any action which a company or individual may take on the basis of information contained herein.

Our Products:
- Magnetic Door Catchers.
- Magnetic Door Holders.
- Caster Wheels (140 Types in Caster Wheels)
- Aluminum Profiles.
- Bed Fittings.
- Wardrobe Sliding System.
- Hydraulic Door Closer.
- Hydraulic Hinges (S.S., Nickel Plated)
- Telescopic Drawer Channel (S.S, Zink, Powder Coated)
- Buffers.

First Time in India
Magnetic Door Holder/Catcher
- ISO 9001:2008
- CE Marking
- Hologram Seal
- Barcoded (EAN)
- Regd. Design
- D&B D-U-N-S® No

Manufactured By:
HERO PLASTIC INDUSTRIES
6, Jaylaxmi Industrial Estate, Plot No. 5B, GIDC, Dhadav (CMC) Ahmedabad-382 415, Gujarat, India. Tele: 91-79-22579544
Mobile: 9825010559, 909398912224
E-mail: hero_plastic@yahoo.com / info@heroindia.net
Web: www.henzerindia.com / www.heroindia.net
Contact-Free & Water-Efficient

Maintaining proper hygiene has become even more important in order to contain the spread of any disease-causing virus or bacteria. This is driving sanitaryware brands to introduce products that are touchless and backed by cutting-edge technology to provide optimum safety in homes, offices, and in public spaces such as restaurants, gyms, and other institutions, besides being water-efficient.

Hafele has introduced a sensor-operated Sanitizer Dispenser for counter tops that allows preventive hygiene and protection against cross contamination, harmful microbes, and infectious viruses on surfaces. The stay-heathy top dispensers by Hafele can be customized to include the name and logo of any corporate brand. The battery-operated, 1000ml dispense allows complete placement flexibility, and the disinfectant in the dispenser is of the highest quality, procured from WHO GMP approved sources. It has a matt stainless finish and comes in two versions: without customization of LED back-lit brand logo in size 305 x 140 x 465 mm and with customization of LED back-lit brand logo in size 305 x 140 x 508 mm.

Hafele’s sensor-operated Floor-Standing Dispenser offers complete placement flexibility and is equipped with an anti-bacterial wipes dispenser to disinfect surfaces prior to use. The liquid disinfectant and anti-bacterial wipes in the dispenser are of the highest quality, procured from WHO GMP approved sources. It is available in various types and capacities, and in finishes such as matt stainless steel and laminated wood.

POJIALI of Taiwan has developed a device that makes it easy for people to get clean water every time. It is offering its latest built-in filter faucets for the bathroom and kitchen that can filter out 99.9% of bacteria and pathogenic microorganisms in water. The faucets are fitted with a hollow filtration membrane and a de-chlorination ball filter. The flow rate is more than 7 liters per minute. The faucets are made of a special material - Molong PVDF - and have a patented stylish design. The asymmetrical stylish structure is made of heat-resistant material that does not allow accumulation of impurities.
Graffoer’s advanced safety powered touchless range with cutting-edge technology allows hand-free accessibility and easy to operate mechanism. The Automatic Sensor Faucets for basins are designed with an intelligent computerized mechanism to eliminate water wastage by 70%. The water flushes out and stops automatically without any physical contact with the body of the faucet. This helps in avoiding the transfer of virus and other bacteria’s as well. The high-quality touch-less range comes with product warranty and offers maximum safety. The Pedal control tap for basins is foot-controlled and an ideal alternative for manual taps in public places and can be easily installed in conventional basins. The Automatic Soap/Sanitizer dispensers are battery-operated and ensure around 20,000 dispensing rounds with a single battery. The dispenser tank can store 500ml of soap/sanitizer and can be easily operated by placing hands beneath it.

Says Vinay Jain, Founder & CEO, Graffoer, “Our customer’s safety needs are our priority. Given the current pandemic scenario, our new line of touch-less series is designed to provide utmost safety and hygiene by eliminating the need for touching the surfaces. We are focused on maintaining sustainability in our products to help people stay healthy and safe at their homes or workplaces and are working 24/7 to cope with the new market demand for sensor technologies as this non-contact lifestyle will be the #NewNormal.”

LIXIL has introduced the SATO Tap - a novel handwashing station that aims to improve hygiene for millions in developing countries. Developed to be affordable and attractive for low-income households, it allows use anywhere, even without access to running water. The SATO Tap consists of a plastic base with a nozzle that can be fitted with widely available plastic bottles. It is compact and can be used both within the home and as a handwashing station at public facilities. The unique tap design ensures low contact, while the trickle action minimizes water use, meaning fewer refills.

According to Daigo Ishiyama, Chief Technology and Marketing Officer, SATO, handwashing with soap is one of the cheapest, most effective ways to prevent the spread of infectious diseases. “Our solution is affordable and reliable, easy to produce and transport, effortless for children to use, as well as water-saving to minimize the frequency of the refill. This is because the SATO Tap design relies only on the characteristics of water and gravity to create a simple on-and-off mechanism.” The first SATO Taps will be manufactured in India, and will be available for partners in September 2020, with ramp up of production and retail availability through early 2021.
Sloan India is offering numerous touchless bathroom and sanitaryware products, such as integrated sinks, hand dryers, faucets, flushometers, urinals and allied washroom items. In the AER-DEC® Integrated Sink, for instance, the sensor activated soap dispenser, faucet, hand dryer, and sink basin are designed to work together as a touch-free, hygienic, and an efficient system. AER-DEC eliminates the need for paper towels and reduces maintenance, saving up to 95% in operation costs. A range of flow rates brings varied user experience and water conservation.

The company’s TruFlush is an innovative flushometer designed to meet the needs of the Indian market. With high-efficiency flush volumes, it delivers the precise amount of water each time, and compared to a metering valve, it saves water with every flush. Unlike the commonly used valve that simply opens and closes, TruFlush reliably controls the amount of water used. Sloan’s proven piston technology provides a consistent flush volume for pressures from 0.7 bars to 7 bars (10 psi to 100 psi). The corrosion-resistant wall plate is sleek and simple in design and engineered to perform in any environment.

The best feature of TruFlush is that it is the only flushometer that is suitable to work with STP or reclaimed water. The sensor activated flushometer provides hands-free activation for improved hygiene. It works on Infrared Sensor and has two power options, battery and hardwired. If it is working on hardwire, the battery works as a backup. And in case there is a power failure, the battery will get activated immediately. Electronic override button can be used in case of an emergency. The front plate of TruFlush is made of metal and is long lasting for commercial application.

Says Anup Tripathi, General Manager – India Operations, “Sloan has a global team of engineers for developing water-efficient technologies without compromising on design, quality, reliability or performance. The emphasis of our designers is on high-efficiency products that are good looking as well as green and sustainable. Since making eco-friendly products is part of our overall ethos, we are paving the way for efficient plumbing solutions that are water saving too. With Sloan’s innovative engineering, quality materials and expert workmanship one can count on its products for years.”

He informs that all Sloan products are sold along with product-specific literature outlining the do’s and don’ts as well as other modalities for proper use of each item, and are backed by visual infographics to make the task easier. "Our dealers and sales representatives are well-informed and trained in disseminating these guidelines to the customers. Moreover, Sloan offers online classes for commercial professionals. Given the importance accorded to training, we even run a webinar series on this,” says Anup Tripathi.
#114/14, 1st Main Road, P.P. Industrial Estate, Deepanjali Nagar, Mysore Road, Bangalore - 560 026
Tel: 080-2675 5225 Fax: 080-2675 6884 Website: www.sharpply.com Email: info@sharpply.com

Sharp Ply presents
FORMWORK TO FINISH

ECP Door & Window Frames

Engineered Composite Profiles

Flush Door
Skin Door
Veneer Door
Laminated Door
Designing ‘Ready-to-Approve’ Building Plans Online

As the government is aggressively pushing Smart Governance and Digital India, most of the urban local bodies (ULBs) have adopted the online building plan approval system, says Vijay Gupta, Chairman & CEO, SoftTech Engineers Limited.

Now, the question arises “how can architects and developers quickly and easily check their drawings beforehand and ensure the building plans comply to development control regulations (DCR)?” Will it be possible for them? Yes, it is now possible with the help of technology driven by Artificial Intelligence. Such functionality will enable architects and building professionals not only to save time and money on unnecessary drawing iterations, but also to obtain the peace of mind during these stressful times.

Ways in which technology will help architects and developers:

• Create accurate, ready to pre-check, pre-formatted building plan drawings in a familiar CAD environment.
• Identify and visualize the errors or non-conformities in the drawings and highlight them in different colors.
• Automatically calculate the areas for building plans even in complex and big projects with accuracy and speed.
• Make multiple revisions in drawings on-the-go to arrive at optimum design of the building plan. Dramatically increase the probability of getting it ‘Right The First Time’.

With COVID-19, we have to change the way we do business and adopt new ways and mechanisms to simplify the processes. Moving ahead, architects and developers should focus more on:

• Implement stable and technology-driven methodology in businesses.
• Allocate more energy towards creative designs with economic consideration.
• Save time and money on routine processes with the help of technology.

Time management is going to be a critical aspect. Hence, we have to think ‘out-of-the-box’ and invest wisely in technology upgradation. For the architects and the real estate developers, it will be a must to adopt innovative ways to handle their routine business processes.

For creating ‘ready-to-approve’ building plans, technology is going to be the key player. The availability of technology to check drawing plans first-hand before submitting it to the authorities will drive improved revenue opportunities for architects and developers.

Vijay Gupta

Vijay Gupta
Landmark Crafts Pvt. Ltd.
E-mail: hpscrews@gmail.com, Web: www.landmarkcrafts.in
Customer Care No.: 9810331551

HP® is Registered Trademark of M/s Landmark Crafts Pvt. Ltd.
Re-Conceptualizing, Re-Configuring, Re-Designing Offices

Office designers, developers, and furnishing companies share their outlook on the emerging constraints and challenges in office layouts as the new normal, post Covid, places fresh demands on office design to enable social distancing and greater hygiene, and thereby boost employee confidence.

Says Ar. Mayooree Saxena at SAI Consultants, "In just a few months this pandemic has changed how and where we work, forcing us to come up with different and flexible ways of working. As we start to settle into this new normal, we look at various trends that will impact the kind of workplaces we will inhabit in a post-pandemic world. Based on the recent research that shows that most of the Covid-19 transmission happens indoors, green and healthy interior solutions would be the prime considerations of designing. The post-Covid world demands social distancing and reduced gatherings along with the recognition of effective remote working. As a result, offices will now tend to shrink in terms of the size of physical spaces, and the number of people occupying the workplace at a given time.

Determination of safe occupancy levels and modifications in workspaces would be the prime challenges. Accordingly, other design considerations include re-entry options, flow patterns, air conditioning design, identification of risk points within a space, cleaning, and maintenance strategies. Some ideas to create a safe environment include use of adaptable furniture, selection of anti-microbial finish materials that are easy to sanitize, and the invention of 21st century appliances and technology that limit surface touch."

Offices will now tend to shrink in terms of the size of physical spaces and the number of people occupying the workplace at a given time.

Ar. Mayooree Saxena
"The coronavirus pandemic has altered our lives in a shot span and made business operations complex, giving rise to a new work system – Work-From-Home. Though people have been successful in getting some types of work done remotely and over video, a large section of the workforce is struggling with the generative work that creates new ideas and solves complex problems. Our study also tells us that after months of working apart, employees want to return to the office to be with other people, socialise and collaborate in ways that just aren’t possible remotely,” says Uli Gwinner, President, Steelcase Asia Pacific.

Businesses around the world have witnessed some unprecedented challenges impacting the way we work. The sudden shift in workspace dynamics accelerated by the pandemic has further propelled the importance of creating workspaces that are both employee-centric and conducive – allowing us to socialise, collaborate, focus, and rejuvenate. One must balance the need for such compelling spaces with the need for safety. Meanwhile, these spaces will pivot towards supporting the physical distancing and cleaning protocols that are required to create a safer work environment.

“As we study the new issues of creating safer work environments in the Covid-19 world, we’ve discovered three main design challenges – physical distancing, circulation patterns, and spatial context. Organisations can look at three key strategies to tackle them:

Density: Reducing the number of people accommodated within a space to satisfy physical distancing requirements.

Geometry: Changing the arrangement of furniture to maximize distance and minimize close face-to-face orientation.

Division: Adding screens or panels to create boundaries and barriers between people, spaces and pathways.

These strategies should be used in combination to address the design challenges for creating shared spaces where people can come together more safely, whilst getting the flexibility they need to toggle between creating greater distance. In addition, organisations may look to equip these spaces with furniture that offers more flexibility - for example, freestanding solutions that can be easily moved apart to accommodate distancing, placed at angles to change geometry, or shielded to create division – whilst supporting generative collaboration.”

Ashish Aggarwal, CEO, Indo Innovations informs that since companies operating out of commercial offices and buildings are expected to maintain social distancing norms even after the pandemic ends, experts from the healthcare and interior design industries agree that opening up offices after the pandemic would require both short term fixes (such as boosting worker confidence) and long-term design upgrades and modifications. However, the underlying focus would be on placing hygiene at the heart of the new workplace.
Unsurprisingly, of course, everyone is heralding the ousting of open floor/plan workplaces and asking for the return to private offices and huddle rooms. Yet experts from across industries and interior design companies agree that all the solutions being thought of right now are purely tactical. Which means, no significant investment will be made right now on solutions since they could be rendered ineffective by our understanding of the virus in the next couple of months.

"We are constantly working with interior designers and architects to recreate the office design. Our products help them in creating the desired spaces as our furniture can be configured in various layouts as per the needs of the users, while our new ranges like PlayWorks and Square Series are not only easily configurable, but are also designed keeping in mind the social distancing norms."

According to Ashish Aggarwal, there is currently more interest from corporates in having dedicated and secure private offices. "Corporates and large enterprises will avoid high capital expenditures and look towards flexible working spaces to expand business. Another win for flexible workspaces will also come from the fact that companies will have to practice social distancing within their campuses, which means they might have to station some employees in different locations. Therefore, with unique packages, interiors, designs and offers, co-working space providers are in a unique position to leverage the opportunity and make the segment more attractive for its consumers."

"Technology that enables contactless interaction or engagement is now available and corporates will be looking to make the most from contactless appliances and gadgets (VMS, Biometrics, Lifts, Doors, etc), sensor-based fixtures (hand sanitizer/soap dispensers, taps, urinal, lights, etc), and they will also be looking to implement contactless deliveries and movement (pickup/drop boxes), along with adopting robotic cleaning system to make workplaces safer." He adds, "We had never thought of a time when we will have SOP and guidelines for hygiene and cleanliness of this level. From thermal temperature monitoring to check

Post Covid-19, demand for office spaces that can meet the enhanced sense of hygiene and safe environment will dictate the terms

Raman Gupta

Manas Mehrotra, Chairman, 315Work Avenue, believes that there is currently more interest from corporates in having dedicated and secure private offices. “Corporates and large enterprises will avoid high capital expenditures and look towards flexible working spaces to expand business. Another win for flexible workspaces will also come from the fact that companies will have to practice social distancing within their campuses, which means they might have to station some employees in different locations. Therefore, with unique packages, interiors, designs and offers, co-working space providers are in a unique position to leverage the opportunity and make the segment more attractive for its consumers."

"Technology that enables contactless interaction or engagement is now available and corporates will be looking to make the most from contactless appliances and gadgets (VMS, Biometrics, Lifts, Doors, etc), sensor-based fixtures (hand sanitizer/soap dispensers, taps, urinal, lights, etc), and they will also be looking to implement contactless deliveries and movement (pickup/drop boxes), along with adopting robotic cleaning system to make workplaces safer.” He adds, "We had never thought of a time when we will have SOP and guidelines for hygiene and cleanliness of this level. From thermal temperature monitoring to check
up through pulse oximeters and further to UV based, all of this has now become the new normal. As no organization had earlier considered social distancing while designing their office, they will now be facing a huge challenge in accommodating the huge workforce."

"In consultation with a panel of experts on our board which also includes doctors we have come up with two very differentiating products to provide healthcare facility standard sanitization at our workspaces. First is making use of an 'Ioniser,' a patented technology that provides air filtration and kills all the germs in the air. Second is making use of coatings and paints which always keeps the surfaces sanitized. We have also redesigned our seating arrangement at workstations and in areas like the cafeteria, lift, breakout lounges, etc. to maintain 6 feet distance between two individuals," he adds.

Advocating biophilic design to reduce workers’ stress and enhance their sense of well-being in an indoor environment, Yaara Plaves, Head of the National Sustainability Forum (NSF) at Hames Sharley, says, "Biophilic design mimics the experience of nature within an ostensibly unnatural space. It’s bringing the outside in. This is achieved by a whole host of practical design measures, from sensory cues that recall the natural world (employing sights, sounds and even smells that we relate to the great outdoors) to more subtle approaches such as the use of contours, patterns and textures that recall less structured, angled and ordered surroundings. Use of natural materials in the creation of these organic shapes adds another element, while increased air and light increase the sense of peace. One principle of the technique is to introduce mystery to a building, a sense that a space should be explored for us to appreciate it fully.

Biophilia is socially sustainable because it improves physical and mental health. It’s environmentally sustainable as it increases opportunities for biodiversity and can help reduce carbon emissions, using plants and natural materials. Biophilia is invaluable in weaving nature into the design process, at every level. From building façade to carpet selection, from urban design to graphics, all aspects of design have opportunities to learn from nature as a building block, as part of a regenerative design strategy.

Indeed, even before coronavirus took us in its grip, designers were actively exploring biophilic design for its positive effect on emotional wellbeing. The tenets of the practice also make good sense in terms of sustainability, help improve employee’s productivity, reduce the amount of sick leave taken per year and heighten the desire to be present.

Says Ganesh L Khanolkar, Director Operations, Netix Controls India, “In recent times, the commercial real estate industry has begun to proactively adopt a unified and centralized smart building management solutions, which leverages AI and IoT technologies to reshape building operations and maintenance. This is because, the post Covid-19 ‘new normal’ requires facilities management to deliver unprecedented quality and consistency than before. Employees may not be able to come back to the same layouts as before, especially in offices that have a shared workspace or requires people to work in close proximity. In such instances, IoT and sensor-based smart building management technologies make it possible to measure occupancy on an ongoing basis, and in identifying spaces that require more careful management, due to the relative footfalls they draw."

"Knowing where people are inside the building is a critical data point for decision-makers. For example, they can choose to move people to less-used areas or reroute traffic to reduce the number of people passing each other. Management might decide to program the elevators to move in a single direction, or adjust the cleaning schedule to ensure that high-traffic areas are disinfected several times a day.”

"Digital tools can empower building management teams by giving them means to monitor and enforce social distancing in real-time"

Ganesh L Khanolkar
Climate Responsive

Overcoming multiple site restrictions Sanjay Puri Architects create energy-efficient offices that open into outdoor spaces

Akshaya 27 is designed in response to the climate and the client’s brief. Located in the old business district of Chennai in South India, the plot had multiple challenges. With very narrow access from an arterial city road and no road frontage, the 4,098 sqm plot is sandwiched between existing buildings on all sides. A total area of 8,000 sqm was to be built based upon the client’s requirements and the permissible construction area, along with a height restriction of 27m.

Cantilevered cuboid volumes create a sculptural office building. The ground floor is deliberately kept small to allow easy vehicular circulation within the site and houses community spaces including a cafeteria, gymnasium, and an entrance lobby. The offices divisible into 4 at a level with varying sizes from 165 to 270 sqm, cantilever out at the first floor and step back and forth creating linear north-facing terraces on every floor.

Fact File
Client: Akshaya Group
Built area: 8,000 sqm
Location: Chennai, India
Principal Architect: Sanjay Puri
Project Architects: Kapil Merchant, Pooja Sampat
Completion Year: June 2020
Photo Credit: BRS Sreenag, Sreenag Pictures
The service core forms the southern side of the building, becoming a buffer to reduce heat gain in response to the hot climate of Chennai. Temperatures are in excess of 35°C for most of the year with the sun always in the southern hemisphere. Orienting all the office spaces towards the north with the service core on the south mitigates heat gain completely, rendering the building very energy-efficient.

The open terraces on every floor along with a rooftop landscaped garden provide outdoor spaces for the office occupants. Solar panels at the rooftop harness the ample solar energy available in this location, providing energy for the lighting of all the public areas.
The 3,000m² sales office project consists of four floors. The main entrance is located on the third level, providing access to the main sales center functional areas, including exhibition space, which spans the second and third floors. The ground floor features a heated swimming pool and health club, while a small art gallery occupies the fourth floor.

The Power of Inner Dynamics

Designed by architecture and interior design firm aoe, the project highlights relationships between architecture, nature, society, and the local people.

Located in the northern zone of the core region of Chongqing, China, the project consists of a cliffside building, designed and constructed into the surrounding mountain façade. In the main structure, the designers have deconstructed and reconstructed its internal spaces with an infusion of architectural elements conducive to the topography, resulting in the creation of a rich architectural, urban space.
Fact File
Location: Yubei District, Chongqing, China
Gross Built Area: 3210.56m²
Client: Sunac
Lead Architect: Larry Wen
Engineering: CMCU Engineering
Landscape: INTO
Interiors: Matrix Design
Completion Year: 2020
Photo credits: Huang Ligang
Source: v2com
The project enhances the spatial experience of the building’s visitors through a design-oriented rethinking of modern lifestyles. The open concept of the sales offices breaks with tradition, promoting a more inclusive environment conducive to interaction. The artistic space on the top level will continue to evolve as an integral part of the interactive theme, with plans to develop the space into a community art center in the near future.

Externally, the project incorporates the shapes and forms of surrounding natural rock formations, adapted through deconstructive techniques to create flowing spaces. To complement those elements, the designers carefully studied the characteristics of a wide variety of materials and their effect on shadow and light. Stainless-steel, abundant glass, and acrylic light rods brilliantly contrast with cave-like elements reminiscent of a Roman grotto. The main entrance is supported by a riveted steel structure to form the principal framework. Large sections of the wall are cantilevered by steel columns, with composite plates inserted to reduce the overall load. This combination contributes to the irregular freehand brushwork facade of the building’s walls. Externally, 800 mm glass cantilevers seamlessly connect the glass framework.

The sculptural building’s deconstructivism is highly visible with its splendid artwork and aluminum-formed, thousand-paper crane façade, the latter being a reference to Asian cultural symbolism representing health, longevity, and truth. Stainless-steel plates form the internal workings of the crane system, combined with hanging folded aluminum plates to achieve a dazzling external design. By day, the mirrored finish of the structure’s stainless-steel framework glistens in the sunlight, distinguishing itself amongst the surrounding greenery. By night, acrylic light rods emanate brightly, enveloping the structure in a fantastical, dream-like aura. Sculptural design elements further contribute to the building’s external visual appeal, positioning it as a work of art.
Customized range of
Doors & Windows
Designed specifically for various usages

Servicing the construction industry for over 49 years, we have executed many prestigious projects with our Doors & Windows all over India.

Our Credits
- CBRI & TAC approved fully insulated fire doors for different fire ratings
- Blast Resistant steel doors & windows
- Large sized Industrial doors Manual & Motorized
- Hollow metal pressed steel doors (insulated & un-insulated) out of galvanised and stainless steel sheets
- Tubular profile windows with pressed steel frames for broad outlook
- Airtight steel doors
- Steel doors & windows as per IS:1058 & 1361
- Anodised & electrostatic powder coated aluminium doors, windows & partitions etc.
- Fully Automatic Vertical Folding Doors of width upto 14 metres and height upto 6 metres
- Pressed steel frames for doors & windows as per IS:4351
- Rolling Shutters as per IS:6248, both manual and automatic type
- Pressed stainless steel wall/column cladding panels, handrails, frames & facia’s

On the Approved Vendors List of Various Govt. Undertakings Like EIL, NTPC, GAIL, BHEL etc.

Super Steel Window Co.
(AN ISO 9001 : 2015 ACCREDITED COMPANY)
STEEL HOUSE : F-2, Udyan Nagar, Adjacent to The ISH MEHRA DWAR, Rohtak Road (NH-10), New Delhi-110 041, INDIA
Tel.: +91 11 49534788 / +91 98100 80088 E-mail : info@supwinco.com Website : www.aswc.in & www.supwinco.com
An Invigorating Space

The interiors of Green Door, an interior design studio located in Hyderabad, reflect a vibrant energy that enhances work productivity and efficiency. It follows an eclectic design style, where different textures, earthy colours and varied patterns are used to create a balance in the exterior and interior spaces. The ambience is rustic with materials such as reclaimed wood, stone, concrete finished ceilings and walls. Stone and brick cladding lend character to the space. Different laying patterns like herringbone have been used to play around the space.

Bold colors are seen in the furniture, beams, doors and cabinets. Moroccan patterned tiles create a pathway along with wooden flooring give a different dimension to the place while blending with the design elements.

The sustainable design focuses on creating an eco-friendly workspace – one that is cost-and energy-efficient. This was achieved by using materials that are natural and durable, besides which, natural light flows in throughout the day. The exterior elevation of the building has pine wood cladding and glass, and fire, sound, and weather-resistant materials for the ceilings.
Fact File
Project Name: The Green Door
Project Type: Office Building (Interior Design Studio)
Location: Hyderabad
Built-up Area: 3800 sqft
Design: K Design Studio
Photography: Maulik Patel

Use of natural material creates a sense of harmony and balance in the interior spaces, while the colour mix is reflective of a positive environment that invigorates the occupants.

Komal Jain, Founder & Chief Designer, K Design Studio
International Trade Fair for Construction Machinery, Building Material Machines, Mining Machines and Construction Vehicles.

baumà CONEXPO INDIA

baumà CONEXPO INDIA 2020 is postponed to **February 23–26, 2021**
Gurugram/New Delhi

For Bookings Contact: Ms. Violet Rodrigues | Tel.: +91 22 6787 9804 | info@bcindia.co.in

www.bcindia.com
Manufacturer of premium-quality bath fixtures and furnishings WETSTYLE brand-new showroom in Saint-Bruno-de-Montarville, on Montreal’s South Shore, Canada, opened in January 2019, consolidating the brand’s manufacturing operations, executive offices, and showroom in a single location.

The showroom occupies the ground floor of a custom-designed 11,600 sqft building, located below the company’s corporate offices and state-of-the-art Design Lab, and connected via enclosed transitional corridor to the 30,000 sqft factory and operations facility. In addition to showcasing the brand’s elite product line, the showroom also features an open-air kitchen for hosting events, a museum-like section portraying aspects of product manufacturing, and a dedicated ‘WET-U’ training facility for the company’s agents, sales representatives, and design professionals.

**Focused presentation**
The challenge was to fill the showroom with distinct and intimate spaces, each highlighting an individual product, while maintaining the collective space’s open concept. Faced with an existing structure lined with expansive windows, there was also a need to eliminate outside distractions to ensure unwavering focus on the products.

**A Timeless Black & White Canvas**

**Atelier Moderno** collaborated with WETSTYLE Design Lab team to create a space, drawing upon core elements of the brand’s identity and ideology. The project won the 2020 Grands Prix du Design award in the Best Showroom category.
In approaching the scale of the products, the architecture, and the outside environment, we created a forest of floating walls that zigzag through the open space to create a circuit presenting different décors for each product.

Jean-Guy Chabauty, President, Atelier Moderno

(Photocredit: Atelier Moderno)

In a contemporary space of white with black contrasts, floating ceiling elements provide the effect of walls rising from beneath the floor and into the ceiling. The non-obtrusive walls isolate each product zone in vignette-like fashion, invoking sentiments of environments reflective of the products in use. Atmospheric lighting sets the mood of each product zone via strips and spotlights, reflecting off a porcelain floor with marble-esque qualities that embrace the sophistication of the company’s high-end products.

Anchoring the vast space is a centralized, custom-built staircase that divides the showroom level from the office space above. Gold finishing highlight the floating stainless-steel structure, with walnut stairs providing a transition to an open space above. The warmth of the wood, the mood of the lighting, and clean, pure lines help distinguish the open space from the enclosed offices that surround it.
Carbon neutral ambitions

The design of the complex reflects the brand’s commitment to eco-friendly manufacturing and includes vacuum and air systems for purifying operations and controlling emissions. WETSTYLE is the only company in North America to have transitioned from petrochemical resins to soy and bio-based resins. Its proprietary material WETMAR BiO™ has been recognized in the green innovation category as the industry’s first recipe for soy and mineral stone used in the fabrication of composite bath fixtures.

Consolidating operations

The consolidated complex addresses the brand’s current and future needs, ensuring the operational efficiency required for the company’s long-term strategic plans for consistent growth and innovation. Expanded facilities for engineering, R&D, assembly, moulding, casting, finishing, and shipping, as well as major investments in machinery and a new ERP system, will enable the company to take on larger projects and to expand its product line.

The new facility showcases the company’s brand values and serves as a vehicle for exhibiting the tremendous level of detail, craftsmanship, and passion invested in the making of its products that include bathtubs, sinks, shower bases, and furnishings – all of which display exceptional craftsmanship and the most environment-friendly materials.
Located 50 meters from the Mediterranean seafront, the project is housed within a new architectural icon inspired by the Cubist art of Pablo Picasso and Georges Braque. It features 40 luxurious apartment units, along with a full-service 5-star hotel in Tel Aviv’s Namal Port in Israel. The Hagag Group, Israel’s leading residential developer, officially entered the construction phase for its most exciting project to date, which will be delivered in Q4 2022.

Fusing Art & Architecture

The Cubist Art-inspired ten-story property designed by Ilan Pivko Architects, is set to create new benchmarks for quality and value in the Israeli real estate market.

Each floor of Port Tel Aviv features wrap-around recessed private terraces with mosaic-like façades that offer innovative movable brise soleil protection, which can either protect residents from the sun, or be moved aside to allow sunlight to cascade onto the terraces and into the bright and airy living spaces with high ceilings that facilitate unobstructed floor-to-ceiling views. Incorporating the surrounding landscape and seafront into the apartments’ design, each home will be finished and dressed in materials such as glass, steel, marble, and oak, and fitted with state-of-the-art technology.

Mixed Use
Mixed Use
In keeping with the artistic Cubist façade of the building, the double-height ground floor lobby will provide an ever-changing collection of artworks and exclusive pieces by contemporary Israeli artists. Floor-to-ceiling windows and full-height glazed doors on the ground level open onto spacious outside timber leisure decks. Amenities will include a gymnasium with a separate exercise studio, a business center with lounge areas, swimming pools, etc. The development is modernist, fusing art and architecture, and environmentally conscious.

The Tel Aviv Port originally opened on February 23, 1938 and ceased its status as an active port on October 25, 1965. In 2009, it was re-opened after undergoing a complete restoration and now serves as a hub of entertainment and culture while retaining its seafront charm and authenticity, with a classic boardwalk style promenade and curving structures.
KOA Canvas comprises a collection of 86 residencies, a member’s only workplace and social club (Nasab), a multi-purpose amphitheater, a photography studio, a café and restaurant, fitness facilities, spa treatment rooms, and two infinity pools. This mixed-use development aims to re-interpret how people live, to re-imagine the public realm of cities, and enable social interactions.

KOA Canvas represents a new era in modernized urban property development with use of over 750 sqm of thermally-modified tulipwood (TMT) to create the cladding, which also transforms into an outdoor shaded walkway and elevated public balcony.

**T.ZED Architects** wraps KOA Canvas - a new residential community in Dubai - with the American thermally-modified tulipwood such that the cladding element transforms into an outdoor shaded walkway and an elevated public balcony.
KOA Canvas is a contextually relevant project that aims to contemporize regional architecture. It will weather and stand the test of time in the arid desert climate of Dubai due to use of the right materials for external cladding, landscaping, and moulding the architecture in a way that relates to the sun-path and wind direction. TMT does not absorb moisture and is dimensionally very stable. It is less prone to warping and twisting with changes in humidity, making it perfect for outdoor use. Our collaboration with AHEC has been instrumental in understanding the opportunities for experimenting and favoring this material.

Tarik Al Zaharna, Founder & Director, T.ZED Architects
south-facing and east elevations were clad in vertical TMT louvers that are operable when in proximity to office windows. This vertical element offers shade to an outdoor amphitheater and creates a clear-cut line between the water feature and usable landscape. As the TMT wraps around the building to areas that receive less direct sunlight, the vertical turns to horizontal in order to create an extended pergola for shading of social programmes on the ground floor. In plan, the TMT is offset from the building, tracing the sun direction as well as architectural programme of walkways, entrances, and restaurant terraces. Internally, the architects have continued the material into some public spaces as a way of drawing the outside in. TMT, along with its durable properties, also provided a rich contrast in color to the quartzite stone building it shades behind.

This is the first time that thermally-modified tulipwood has been used in these quantities in the region. According to the architects, the material was pleasant to work with as it was easy to cut and mechanical fixing methods were straightforward. Due to its light weight, it was also easy to transport, and storage for acclimatization was done on site. This enabled them to remain on track with regards to project timelines.

The project also presented the architects with an opportunity to identify a balance between a more traditional culture and a modern one anticipating the needs of social customs of our times (internal courtyards and modern majlis). KOA Canvas is a sustainable transformation of an existing office building into a thriving urban space for communal activities alongside the creation of an additional two new-built structures, with a variety of programmes that express contemporary architecture of the region. Despite Dubai’s natural desert landscape, the design approach for such a wider context led the architects to address the architectural proposition by absorbing and infusing the lush environment surrounding the site.

The development celebrates materiality, natural light, natural ventilation as well as weathering. TMT was used primarily as a shading element to prevent overheating of the double-height co-working, and closed office spaces. The
NBM Media
Whatsapp Service

To stay updated on important developments in • Infra Construction • Equipment & Machinery • Architecture & Design • Lifting & Logistics

Save +91-9354587773 in your mobile and send a ‘saved’ message.
A Dreamscape by the Sea

**MAD’s Wormhole Library serves as a multi-functional building that allows visitors to read, enjoy views of the sea, and attend open-air performances. The building is under construction and will be completed in 2021**

Facing the South China Sea, the Wormhole Library is located in Century Park along the Haikou Bay coastline. The intimately scaled structure is cast of white concrete as a unit. The curved concrete walls not only serve as organic architectural structure, but also connect the ceiling, the ground, and the walls together. The sensuously curved pavilion appears to be a “wormhole” that transcends time and space. Holes of varying sizes allow the architecture to breathe and meanwhile let natural light flood the interior. The grey spaces of the exterior corridors provide shady spots for passers-by to stop and rest.

The interior is composed of two parts: a 690-sqm reading space that can store approximately 10,000 books, a café and a terrace; and a 300-sqm public rest area that is equipped with a bicycle parking system, public bathrooms, and shower areas.

To ensure accuracy and seamlessness across the curved surfaces, the building is being cast using both a CNC and 3D printed model. All MEP has been designed to be hidden within the concrete cavity to minimize its appearance and create visual consistency.

Curved sliding doors and retractable glass curtain walls not only provide views of the sea, but also enhance overall airflow and ventilation. In response to local weather conditions, the roof on the sunny side is cantilevered to achieve comfortable temperatures, realizing a sustainable and energy-saving building.
Fact File

Project: Wormhole Library
Location: Haikou, Hainan Province, China
Client: Haikou Tourism & Culture Investment Holding Group
Site Area: 4,397 sqm
Building Area: 1,380 sqm
Principle Partners in Charge: Ma Yansong, Dang Qun, Yosuke Hayano
Executive Architect: East China Architecture Design and Research Institute
Façade Consultant: RFR Shanghai
Construction Contractor: Yihuida Shimizu Concrete
Renderings: SAN
Parametric Architecture

Shirdi Sai Baba Temple in Koppur, in the outskirts of Chennai, is a collaborative project by Shilpa Architects and rat[LAB] Studio which revolves around the Master Number 11, symbolizing balance, vision, purity, masculinity as well as femininity in Indian mythology.

The Sai Temple will be unveiled on an 11.11-acre site that is proposed at the epicentre of a 338-acre master plan project of Chennai. The client brief had a strict indicative of using the number 11, owing to their belief in numerology and vastu. Parametric Design Consultants rat[LAB] was invited to join lead architects - Shilpa Architects as design collaborators.

Taking an unprecedented approach, the concept design developed with an 11-sided polygon – Hendecagon - articulated as a three-dimensional polyhedron. Known for their expertise in Computational Design and Parametric Techniques, rat[LAB] saw this as an untapped opportunity to explore computational design for a religious space in a novel manner. Using mathematics, sacred geometry, and structural logics, an algorithmic process was developed to use evolutionary computation to create a plethora of forms, using spatial and structural constraints as parameters. Hendecagon was evolved to three-dimensional spaces while evaluating environmental aspects such as daylight, radiation, shadow range as well as structural logics of ‘double-fold’ origami. Geometric constraints of the geometry revolved around number 11, with height of the apex at $11 \times 5 = 55$ meters, and radius of hendecagon as $11 \times 5 = 55$ meters.
This temple is going to be one of the rare projects of this scale where computational design, parametric methods and algorithmic approach is being deployed to design a spiritual space, making way for redefining a blend of contemporary and traditional architecture in a heritage-rich country.

*Principal Architect, Sushant Verma*

The flooring pattern in the main hall is a mathematical looping system using 11 vertices of the hendecagon that folds to form interstitial spaces within the geometry. A recursive division of curves that create an asymmetry towards the deity creates a focal point at the ground level where the pattern curves and guides the visitors towards the deity for prayers and offerings. A pure white space from inside is magically lit by sunlight diffusing from the oculus on top, which maintains the purity and balance of the space by maintaining symmetry. Double fold origami structure allowed to create a rigid structure with fluidic columns that blend into the interior space while allowing a long-span shell-like structure.
The master plan developed by Shilpa Architects, has been inspired by the Gode Neem tree of Shirdi, with a series of explorations on mathematical progressions, resulting in an Agama-shastre based plan as the foundation for the design. The design of the garbhagriha is form-driven while trying to adhere to principles of numerology, Vastu, and powered by computational design. The concept is to provide a form that is as pure and perfect as possible in colour, texture and philosophy. The proportions and sizing of all aspects of the design rely heavily on the understanding of the golden ratio and principles of mathematics and origami. Surrounded by a series of promenades, podium and lush green landscape, the Sai temple is a reflection of spiritual contemplation that will appear 66m (11x6) above the ground, making a mesmerizing experience for visitors entering the temple. Promenade frames the view to the temple, as well as guides the devotees to the 154 ft (11x14) Sai statue.

Comprising of 4 zones: Front promenade, Temple Complex, Rear Promenade, and Statue, the temple will be built on the principles of Vastu Purusha mandala. The Front promenade marks the beginning of the temple complex by inviting the visitors into the complex after drop-off. The area is spatially divided into counters for storing baggage and shoes, frisking and ablution areas. The first view of this architectural pilgrimage is revealed to the devotees at Gopuram. To keep the interest alive, the view is partly hidden through the landscape. Green strips and shops break the monotony of the 525 ft promenade walk on either side of the pathway.

The area of prayer and meditation is based on the 11-point circle pattern that is reiterated throughout the design of gathering spaces and the roof of the garbagriha. The flooring of the garbagriha is done specifically to shift the focus to the far end of the room rather than the centre beneath the oculus of the polygonal roof intersects. Dividing the outer circumference into 11 equal segments, the position of the deity within the garbagriha is fixed. The arcs that radiate from this fixed position connect to the segment points on the circumference forming a petal-like pattern which is also translated to the oculus on the rooftop. This design measure creates a point of focus that is not the centre of the polygon while maintaining symmetry and sanctity of the Master Number.

Fact File
Project Name: The Sacred Hendecagon: Shirdi Sai Baba Temple
Location: Koppur, Chennai, Tamil Nadu
Clients: Urban Tree
Completion Year: 2021-22
Gross Built Area: ~25000 sq.m (Temple Hall: 10,000 sqm)
Renderings: Sreekanth Damodaran at ratLAB Studio
Mindspace Business Parks REIT, with one of India’s largest Grade A office portfolios, has pledged to transition to 100% electric mobility by expanding electric vehicle charging infrastructure for clients across all its Business Parks by 2030, to help accelerate a global shift to clean transport and reduce air pollution in the urban micro-markets. It is the first real estate entity from India to join the Climate Group’s global EV100 initiative, which brings together nearly 90 international companies committed to making electric transport the new normal by the end of this decade.

Mindspace Business Parks REIT has already begun driving EV uptake amongst its clients by installing 1000+ charging points across its business parks. In 2019, EV vehicles were pilot launched at the Mindspace Juinagar Business Park in Airoli (Mumbai Region), with EV infrastructure being set up subsequently across locations at a very quick pace. The infrastructure provided will be supported with communication and campaigns on EVs, and highlighting advantages to the user and environment, to help increase awareness and acceptance.

Mindspace Business Parks REIT, sponsored by K Raheja Corp Group, owns office portfolios located in Mumbai Region, Pune, Hyderabad, and Chennai. Its portfolio consists of 5 integrated business parks and 5 independent office assets. The whole fleet of Mindspace Business Parks REIT portfolios’ owned EV vehicles, which are used to ferry employees in and around the business parks, will be switched to electric by 2030. Says CEO Vinod Rohira, “Our endeavour under the Climate Group’s EV100 initiative is to fortify our commitment to sustainability, with the best blend of innovation and technology. By setting up of the electrical charging stations at our Business Parks we offer solutions that are good for the environment, customers, stakeholders, and future generations.”

EV100, a global initiative led by the Climate Group, brings together companies committed to making electric transport the new normal by 2030. Says Divya Sharma, Executive Director - India, the Climate Group, “By providing charge points for thousands of its employees, Mindspace Business Parks REIT is helping drive India’s transition to electric mobility, lowering emissions and improving air quality. As the first real estate entity from India joining our initiative, it is leading by example, and has a real opportunity to influence the wider sector to follow in its footsteps.”

Today, each building of Mindspace Business Parks REIT is either Gold or Platinum Green Building Certified (LEED/IGBC) due to its sustainable practices. Examples include, integrating passive architecture design, soil erosion control during construction, rain water harvesting, water efficient plumbing fixtures, waste water treatment; installing HVAC systems and energy conserving electrical fixtures, and installing a 1.47MW rooftop solar PV. At Mindspace Madhapur in Hyderabad, organic waste management sees 100% of organic waste converted to manure and using it for landscape inside the campuses; CO2 monitoring inside the buildings, use of low emitting materials, and building designs that ensure 30% extra fresh air. These best practices have led Mindspace Business Parks REIT’s business parks to receive a 5-Star rating by the British Safety Council in its Health and Safety Audit; along with being certified the OHSAS 18001 for occupational health and safety management.
Integrated Townships

Covid-19 has underscored the advantages of self-managed mini-ecosystems with higher safety and security, open spaces, sanitation, and control

Living in integrated townships which are self-sustaining, compact urban ecosystems are now more than just lifestyle upgrades; they provide the kind of controlled environment that makes a big difference during a pandemic outbreak. Gated communities offer security, but integrated townships let residents get through the prolonged siege-like situation of a pandemic with a much lower impact on quality of life.

Says Anuj Puri, Chairman, ANAROCK Property Consultants, "Going forward, dispersed offices and flexible workplace policies around WFH will spur housing demand on city peripheries, beyond the city-centre hotspots. This will lead to higher demand for large township developments which, because of their massive size, have been developed on the peripheries. However, they account for a mere 2% of all housing supply since 2010, so their numbers are currently inadequate to meet the coming demand."

Integrated townships began their Indian innings primarily as a lifestyle statement - the conveniences and address value come at an added cost which does not appeal to budget home seekers. The subtle luxury quotient, a function of the surrounding infrastructure rather than in individual properties, resulted in townships catering to a niche rather than to the masses. Also, very few developers have the expertise and resources to deploy integrated townships. As a result, the supply of integrated townships remained restricted even as other formats proliferated.

As on date, the top 7 cities have just over 101 township projects (launched since 2010), accounting for around 3.16 lakh housing units (Besides mixed-use developments, townships with more than 2,000 housing units are also considered). This is only a minuscule 2% share of overall housing projects launched during this period. Clearly, this is a hugely under-served segment whose underpinning relevance and importance has been emphatically brought to light by the Covid-19 pandemic.

Out of the 101 projects, nearly 57 are largely residential projects with some basic facilities like a retail shop, pharmacy, salon, and some form of entertainment. The remaining 44 are full-fledged mixed-use developments with dedicated retail, entertainment, education, commercial, health and residential spaces. NCR and MMR have the highest saturation of townships.

"Beyond superior conveniences and security, townships offer a sense of community which is extremely important in times like the coronavirus pandemic," says Puri. "Living in such projects also helps work-from-home professionals to maintain optimum productivity while being assured of their and their families' health and safety. Many townships even offer a walk-to-work option."

The most important features of townships probably are their considerable distance from mid-city infection hot zones, superior security and sanitation, reduced and regulated traffic, and large, air-cleansing green zones. Other distinct advantages in townships are schools, shopping and healthcare facilities available nearby.

Multi-level security arrangements can ensure effective segregation from surrounding areas, as well as contact tracing, if the need arises.

Apart from the expertise to plan and execute such large projects, integrated townships also require gargantuan investments in capital, land, and other resources. Resultantly, integrated townships will largely remain the purview of Grade A developers.
Most townships are well-planned layouts where optimum space is utilized. Landscaped gardens, jogging tracks and dedicated play areas enhance the overall livability quotient. Integrated townships also tend to have advanced waste management and rainwater harvesting.

Given the nature of the times, we may soon see more such projects being announced. Various government and nodal development agencies have already incorporated various townships-focused changes in their city planning, such as better road connectivity, utilities supply and sewage. Some of the more promising areas for future development include Kalyan-Bhiwandi and Boisar in MMR, Sohna in Gurugram, North Bengaluru, Yamuna Expressway in Greater Noida, Gahunje in Pune, and West Hyderabad, among others. These locations meet the most important criteria of being well-connected and having enough contiguous land parcels to accommodate integrated townships.

ICDBP Selects Indian start-up Facilio to deliver on a Connected & Sustainable Built Environment

Facilio, a leading AI-driven property operations platform, has been chosen by ICD Brookfield Place (ICDBP) to optimize building performance and deliver real-time operational intelligence. ICDBP, a joint venture between Investment Corporation of Dubai (ICD) and Brookfield Properties, is one of Dubai’s premier lifestyle and business destinations.

With over 4 acres of curated dining, retail, and community space, alongside 990,000 sqft of Grade A office space in the heart of Dubai’s Commercial Business District, ICDBP sets the benchmark in addressing the changing wellbeing, environmental and productivity needs of today’s workforce. Facilio’s cloud platform will allow ICDBP to:

- Gain real-time insights into building performance
- Control spaces, equipment, and multiple building systems remotely from a “single pane of glass”
- Exceed sustainability goals by leveraging embedded AI capabilities
- Automate operations and equipment maintenance
- Introduce new experiences for tenants

Facilio’s AI-driven property operations platform allows real estate owners to aggregate building data, optimize performance, and control portfolio operations - all from one place. Customers in the commercial office, healthcare and retail categories use Facilio to reduce operations costs, increase net asset value and derisk operational liability.

“We needed a scalable and flexible solution to unify all of our disparate building systems. Facilio’s thought leadership and innovative product portfolio stood out clearly and aligned well with our vision. As we look forward to launching the workplace of the future, we are proud to work with a partner like Facilio,” said Rob Devereux, CEO of ICD Brookfield.

Facilio was designed to help the real estate industry transition from reactive and inefficient operations to a proactive, data-driven model. We are confident that our collaboration with ICDBP will enrich occupant experience and transform how buildings are managed.

Prabhu Ramachandran, CEO of Facilio
NSCI confers 7 Construction Safety awards to Shapoorji Pallonji Engineering & Construction

The National Safety Council of India (NSCI) conferred Shapoorji Pallonji’s Engineering & Construction (SP E&C) division with 7 awards in the Buildings and Non-Buildings categories. NSCI Safety Awards recognizes and rewards organisations in the construction sector for their meritorious Occupational Safety & Health (OSH) performance and commitment to reduce workplace injuries, implementations of the best OSH practices, and encourage continual improvements.

Said Alok Srivastava, VP & Corporate Safety Head of SP E&C, “These awards are a testimony to the sustained standards and flourishing culture of safety within SP E&C. We are committed to ensuring workplace safety and welfare of our workers.” The company’s awarded projects include the 351’ high Shiva Statue Project at Nathdwara (Client - Tatpadam Upvan (Miraj Group); the Sattva Knowledge Park at Madhapur, Hyderabad (Client – Devbhumi Realtors (Salarpuria Sattva Group); Hyderabad City Police Commissionerate at Banjara Hills, Hyderabad; Insignia Black Canyon IT Park at Gurugram; Redevelopment ITPO complex into Integrated Exhibition cum Convention Centre at Pragati Maidan, New Delhi (Client – NBCC); High Level Cancer Institute at Lucknow (Client - Uttar Pradesh Rajkiya Nirman Nigam); and the GE Diesel Locomotive Factory Project at Marhowra, Bihar (Client - GE Diesel Locomotive).

The awards were presented by Lalit R Gabhane, Director General, NSC; Arvind R Doshi, Vice-Chairman, NSC; Bernie Doyle, Secretary General – APOSHO & President & Chairman, National Safety Council of Australia; and Sankar Shah, Vice-Chairman, NSC.

In September 2019, JLL became the first property consultancy in the UK to sign up to the WorldGBC’s Net Zero Carbon Buildings (NZCB) Commitment, which helped establish a blueprint for JLL’s sustainability program to achieve net zero carbon emissions across all JLL occupied buildings by 2030. JLL made the announcement with the World Green Building Council (WorldGBC) on the opening day of Climate Week NYC.

The WorldGBC NZCB Commitment is unique in positioning energy efficiency as a central component to achieving decarbonization across global portfolios, in addition to generating and procuring renewable energy to meet reduced energy demand.

The majority of JLL’s reductions will be achieved through the implementation of measures to deliver its science-based target by the Science Based Target initiative (SBTi), as aligned to the 1.5C ambition of the Paris Agreement. Any residual emissions will be addressed via the purchase of eligible carbon offsets. JLL will seek to minimize the purchase of offsets by driving the take up of renewable energy and improving the energy efficiency of its portfolio as a priority.

Said Christian Ulbrich, JLL CEO, “JLL is again demonstrating our determination to play a full part in mitigating climate change. Through our own ambitious sustainability targets, and through the advice and services we provide to our clients, we will work to fulfil our corporate purpose of shaping the future of real estate for a better world.”

“As real estate is responsible for 40% of the world’s carbon emissions, JLL is dedicated to reducing our own emissions and also to partner with our clients to help them do the same. We encourage all in the real estate sector to join this commitment to create a decarbonized built environment,” said Richard Batten, Global Chief Sustainability Officer, JLL.

“We must continue to drive momentum, ambition and leadership towards decarbonizing the built environment, not only to combat the climate crisis but also unlock a green recovery from Covid-19 that benefits people, the planet and economies,” said Cristina Gamboa, CEO, WGC.
Water Conservation & Waste Water Management

Addressing the need for Water Conservation, Messe Frankfurt India’s digital trade fair - ISH India powered by IPA - showcased 980 products from 48 brands, including 15 live product demonstrations and 6 knowledge sessions.

The b2b premiere show for plumbing, sanitation, bathroom fitting and water management system, focused on water conservation and the need for sustainable and water efficient plumbing accessories and sanitation technologies. COVID-19 pandemic has brought the spotlight on hygiene and sanitation as key measures for healthy living with safe, smart, sustainable building technology solutions.

The digital event showcased products by industry leaders like Birla HIL, Aquaviva India, Sekisui Speciality Chemicals, Watertec (India), Wilo Mather & Platt, Ebara Machinery India, Bradford White Water Heaters, Kirloskar Brothers, Zoloto Valves, Brilloc Ltd (HSIL), and Astral Pipes, among others. It brought together the plumbing, real estate, architecture and design to discuss efficient usage of water conservation technologies in buildings of the future and was officiated by Avinash Mishra, Adviser, (Water & Land Resources, Drinking Water and Sanitation, Panchayati Raj, Tourism, Culture, Law & Justice, I&B) NITI Aayog, Government of India, together with the national presidents of the Indian Plumbing Association, CREDAI-MCHI, and the Institute of Indian Interior designers (IIID).

Avinash Mishra stated: "The recent pandemic of corona virus has taught us the prime role of water in maintaining hygienic practices. About 81% of rural households in India do not have individual piped water supply and about one billion people are living with water scarcity at least one part of the year. Through the Jal Jeevan Mission, the government is committed to ensure that 18 crore households across all villages in India will have potable water supply by 2024. It is high time that we resort to measures to address the crisis and adopt solutions for water conservation, water shed management, ground water recharge, rainwater harvesting, modern and efficient irrigation methods such as micro irrigation and precision farming, and water saving technology in sanitation.”

Elaborating on the steps taken in the real estate sector, Deepak Garodia, President CREDAI MCHI said: "Sewage treatment plants and recycling of water is our major concern. Every project above 20,000 sqft has a sewage treatment plant (STP) that recycles water to use in flushes, gardens, and for car washes. Although conservation of water is not easy, we are doing our bit by educating our consumers about the latest technologies available in the market to use water more efficiently.”

Highlighting the need for strong policies, Jabeen Zacharias, President, IIID stated: “Being an architect, we have to balance between customer demands and the need for water conservation. To make this a uniformed practise we need to institutionalise strong policies that highlight the importance of water as a resource. Once these policies are in place, builders, architects and associations can enforce them.”

Talking about the importance of right plumbing in any construction project, Gurmit Singh Arora, President, IPA, said: “The plumbing industry of India is pegged at Rs. 5 lakh crores. The corona virus onslaught has brought an increase in water demand with requirements of frequent hand washing, disinfection, and hygiene. With water supply already facing acute shortage, there is a need for the construction industry to focus on reduction in use of water resources and enhance water supply by methods like rainwater harvesting and waste water management. Right plumbing mechanisms not only supply fresh water but also take away wastewater in a hygienic way.”

Some of the key highlights displayed through the virtual platform include:

• E-Clenz by Hindware: An intelligent WM water closet that controls seat adjustment, water and dryer temperatures, water volume and nozzle position via a remote.
• CNX Water Management System by Watertec (India): An
intelligent technical building system that can seamlessly control and analyse up to 150 drinking water installations via smart phones.

• SuperTube by Geberit: A revolutionary technology for India, the SuperTube is hydraulically optimised to deliver air ventilation and waste-water drainage through a single pipe system.

Expressing satisfaction with the virtual show, Dhirup Roy Choudhary, Managing Director and CEO, HIL Ltd, said: “When physical meetings can be risky, ISH India has provided us with a platform where, in just two days’ time, we were able to organise over 100 virtual meetings with MEPs, builders and various key stakeholders to showcase our product Birla HIL Pipes and our TrueFit Technology, along with our range of environment friendly, non-toxic, anti-microbial pipes and fittings to the entire plumbing community, for which we have received a very positive response.”

Washrooms 2.0

The two-day seminar hosted alongside the digital fair brought together industry experts and stakeholders from the architecture, design, reality, and technology sectors. A series of 6 knowledge sessions covering the fundamentals of design and materials used in buildings and its interiors, touched upon topics such as wastewater management and sustainability, attracting 532 attendees.

Design Materials and Classics

A session on Design Materials and Classics emphasised the need for green certification of products that are used in construction projects to increase their sustainability and improve the performance of the solutions used.

Building Architects and Beyond

Highlighting the need for synergy between architects and builders, Hari Eswaran, Vice President at Larsen & Toubro (Realty), stated: “Architects, builders and vendors form a supply chain for the building construction industry while the end customer is important to the entire value chain. The discussions at ISH India have been fruitful, and working together can certainly add great synergy to future projects.”

Concurred Sonali Bhagwati, President, DPA: “The entire process of architectural development has gone through a quantum change. For the current projects, architects must be the composers that lead the team of vendors and consultants in ensuring that sustainable technologies are adopted.”

Waste-Water Management

The right treatment of waste water in residential and industrial areas can help recycle and re-use water. In India, people, communities and businesses are now getting sensitised over various crucial topics and this is the right time to encourage them to use water management systems. Crucial points like planning of water supply and storage to be considered in the initial stages of construction and architectural projects, the need for active initiative by corporates to make efficient use of water for flushing, gardening etc, as well as more women to lead projects regarding water conservation were the highlights of the seminar.

Simar Kohli Das, Founder Biomimicry / Lifetide, mentioned: “It is not just about the supply of adequate water but also about the right management of water as a resource. Treating water naturally and adding STPs for projects is essential for the efficient disposal and recycle of waste water in the country.”

Next Gen Washrooms

The panel discussion of Next Gen Washrooms highlighted the latest technologies for hygienic bathroom practices. Asutosh Shah, Managing Director, Duravit, sharing the latest trends in the segment, said: “Touchless is the future. With the current scenario making it even more important, sensor washrooms, toilets, urinals, faucets, basins, soap dispensers that can be used by apps on phones or voice control will be in major demand. Thermostatic technology will not only control the temperature but also the usage of water.”

Sustainable Luxury

At the session on Sustainable Luxury moderator Lipika Sud, President, The Guild of Designers and Artists, explained: “The perception of anything sustainable is that it is expensive. We, as designers, need to change this concept and explain the core reason of using materials and designs that are more sustainable in the long run, as these products are long lasting and better for people’s well-being.”

The busy digital market place enabled exhibitors and visitors to create a total of 4,650 contacts with 215 e-meetings scheduled and 175 business calls made. Although the current restrictions in the country have slowed down business sectors, the positive response received by ISH India powered by IPA Virtual Edition proves that industries are back to business and ready to network and continue trade conversations seriously.

Establishing itself as a focused b2b digital marketplace for buyers and sellers, the platform recorded 2,052 active attendees and serious business meeting. Commented Raj Manek, Executive Director and Board Member, Messe Frankfurt Asia Holdings: “The feedback from our customers has re-instilled confidence, both in the trade fair brand and the need for a virtual platform for business to continue in any given situation. We now aim to present our physical edition of ISH India powered by IPA exhibition from 20 – 22 May 2021 at the Bombay Exhibition Center in Mumbai.”
Secure Your Home With Garg Locks

Distributor and Dealers Enquiry Solicited From All Over India

info@garglocks.co.in  www.garglocks.co.in
Switch from Chemical Earthing to Marconite® Conductive Aggregate Earthing

- 30000+ Macronite Earth Electrodes Installed
- Zero Maintenance for 50+ Years
- Implementation by Qualified Experts & Consultants

Our Clients

INTER-TECH HAS CHANNEL PARTNERS IN:
Raipur, Delhi, Panjim, Margao, Surat, Bhandargarh, Bangalore, Kollam, Thissur, Gwalior, Nagpur, Gurgaon, Mumbai, Bhubaneshwar, Jaipur, Hyderabad, Meerut, Kanpur, Noida, Pune, Shimla & Chennai

Get in touch to be INTER-TECH’s new channel partner!

Chemically Inert \ No Corrosion \ No Recharge
Contact Us: +91-97171 63893, 98914 02128, 98914 72130 or +91-11-41020365
or info@interitech.com.co
Lingel Sicherheitstage 2020
Lingel Security Days 2020

Glazing & Hardware

Type

LPG 14
Lingel - Panzer - Glazing 14 mm
Recommended for P6B as per EN356

LPG 18
Lingel - Panzer - Glazing 18 mm
Recommended for P7B as per EN356

LPG-X
Upgrade your existing Lingel security glazing to LPG performance

Type

LSB 1
LINGEL SAFE BOX hardware
to upgrade your existing Lingel window
Recommended for RC2 and RC3
as per EN1627-30

LSB 2
LINGEL SAFE BOX hardware
for your new state of art
Lingel - security - window recommended
for RC2 & RC3 as per EN1627-30

Lingel Provides Masterpiece Windows Where Every Component Is Merg To Perfection

@ www.lingelwindows.com  +91 9870273743  mario@lingel.in