



MCGM

DEPARTMENT OF DEVELOPMENT PLAN

Transforming Skyline of Mumbai

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BIMDCR®, an innovative product by SoftTech Engineers Limited, enabling Construction Permit System at the MCGM has helped it in enhancing Ease of Doing Business (EoDB) Ranking by World Bank by manifold. The MCGM is successfully leveraging Building Information Modeling (BIM) technology, which is a model-based design concept, where buildings can be built virtually before they are built physically. By adopting BIMDCR®, the MCGM is going to streamline data models with complete integration of all relevant factors in the building lifecycle starting from permits to detail design to cost estimation to project management and maintenance. Also, the solution is helping manage information exchange between architects, engineers and contractors in the ecosystem, to strengthen collaboration among all stake holders with single source of data (BIM Model) to manage entire building development cycle.

As an innovative 3D building



model-based online single window system, BIMDCR® based integrated Building Plan -Approval System is enabling automatic scrutiny of building proposals by dynamically reading building models submitted by applicants or architects.

BIMDCR® is dynamically simplifying and automating the construction permit processes: Single BIMDCR® model submis-

Successfully leveraging technology

VIJAY GUPTA, Founder, Chairman & MD, SoftTech Engineers Limited explains the significance of BIMDCR® - a BIM-based construction permit platform powering the MCGM Permit System

sion to various municipal departments will ensure that the change 'Anywhere' is the change 'Everywhere'. The chances of deviations in the building plan approved by the different departments can cause inconsistencies in the approval process. A unified 3D BIMDCR® model with layers of all functions in the same model can help avoid this challenge and adhere to the regulations. Moreover, the approvals at various stages are made easy with the in-depth assessment and analysis. BIMDCR® enables total unauthorised construction control at various stages of any project and will help adhere to Green Building Code compliance.

Considering the complexities in Mumbai though this transfor-

mation is not easy. The initiative by BP department of MCGM under the leadership of erstwhile Chief Engineer Vinod Chithore and able drive by Executive Engineer and nodal officer of EoDB Sanjay Nirmal to adopt this tech-

nology clearly proves their intention to bring technology to the advantage of citizen of Mumbai. The Overall Rank of India in the Doing Business Report 2015 was 142 out of 190 economies. This has improved to 63rd Position in

the Doing Business Report 2020 released in October 2019.

Leveraging BIM (BIMDCR) and CAD (AutoDCR) based permit system, MCGM has significantly improved Ease of Doing Business. Procedures have been

reduced from 20 to 8, the time taken for the process has been reduced from 99 to 45 days, the cost has reduced from 6.6% to 2.21% value of warehouse, the quality parameter is achieved 100% as per World Bank norms., transparency ensured by randomization of scrutiny officials and remarks being in the public domain has been maximized and information dissemination

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Crucial BIMDCR® features that are powering Automatic Building Plan Approval Systems across the globe:

Auto Scrutiny: Automatic Building Plan Approval System is developed as per the Development Control (DC) rules and regulations of various municipal corporations along with the local language support. The solution helps automatically read and identify building information and layout objects from the building model. The system intelligently maps the objects in the building model file to the relevant and applicable develop-

ment control rules.

Dynamic reports: BIMDCR® generates reports that can be customized and produced in regional language including key factors such as plot area report, MIS report, failed item reports, along with the associated rules.

Automated workflow and alerts: The approval process can be mapped dynamically using the rule-based template. Scrutiny of documents,

email or SMS based alerts and notifications are enabled by the solution and mobile app is provided to capture real-time site information.

Flexibility of customisation: BIMDCR® can be easily customised as per the applied rules and procedures of the approving authorities with local language support.

BIM boosting MCGM's EoDB ranking significantly: Advanced and developed countries such as the

US, UK, Singapore, Hong Kong have started significant adoption of BIM in AEC industry because of obvious benefits of this proven technology. The building permit technology product BIMDCR® developed by SoftTech has been a strong facilitator to adopt BIM in the industry. MCGM has been harnessing the power of BIM through BIMDCR® by introducing permits on BIM model. This is second initiative in the world only after Singapore.

Successfully leveraging technology

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by dynamic dashboard has been accomplished. BIMDCR® is an all-inclusive and shared source of information on a single BIM model facilitating effective decision-making during the building construction lifecycle, starting from permits.

The pace of urbanization is speeding up in India. Ministry of Urban Development (MoUD) initiated the much-celebrated national program for urban India - 'Smart Cities'. The idea is to build green field cities as well as rebuild or revamp existing cities to be smart, future-ready and sustainable. The growth of city can be made smart only when the buildings constructed follows the development regulations. So implementation of regulations is at the heart of this great initiatives by MoUD. Whether it is a green-field smart city or an upgrade of an existing city into a Smart City, CAD, BIM and GIS technology with automated permit system will have to be key contributors to Digital Transformation for smart buildings, community and cities.