CASE STUDY

Architectural Engineering & Construction (AEC) Services

BIM & MEP | Architectural/Structural Drafting | 3D Modeling & Rendering

Energy Modeling & LEED Consulting
Case Study Highlights

Client Profile:
Location: Saudi Arabia
Industry: Project Management Solutions

The Objective:
BIM for University hospital building project adhering to AIA standards

The Solution:
The team created information rich intelligent BIM with LOD 500, to support faster collaboration and enable the client to gain control over the project right from construction to facility management phase.

The Challenges:
- The construction work had already started, BIM adoption at a later stage during the project was a challenge
- The turnaround time was another challenge, and detailed BIM had to be developed and delivered within very squeezed timeline
- Additionally, the team also had to understand and deliver BIM with Level of detail 500, adhering to AIA standards
- The building information model had to be developed to support the client right through the facility management phase, and details for all disciplines including MEP, architecture and structure had to be integrated.
- The project was taken up when the construction had already started and interdisciplinary clash detection and construction simulation along with material take off, scheduling etc was quite a challenge.

The Solution
• A team of professionals with extensive experience of handling BIM projects and specialization across various disciplines was dedicated for the project
• Both on shore and offshore support was provided to enable faster collaboration and hence meet the set deadlines
• In addition to the BIM geometry, text documentation and as-built BIM information needed for O&M and FM purposes was also documented.
• All the interdisciplinary clashes were detected to allow clients mitigate risks and reduce rework.
• Accurate material takes offs and construction scheduling was provided, a comprehensive approach was followed to implement higher collaboration in the project.

Benefits
• As the project delivery was on time and the most suitable to carry out construction flawlessly, the client - main contractor for this project, finished construction on time as per tender deadline and as desired
• Liabilities, risks due to clashes and hence rework during the construction phase reduced, in addition to reduction in wastage of materials, manpower and time. Hence client saved money on the project and thus enjoyed better ROI.

Technology / Software Used

About Hi-Tech iSolutions LLP
hitech offers a full range of 3D rendering, modeling, architecture design and engineering services to its global clientele across the AEC industry. Understanding and delivering as per client requirements remains the prime focus, for every project that is undertaken. With a multilayered quality check and flexible time scheduling, quality is maintained and projects are always delivered on time.

hitech is your innovative partner offering multidisciplinary services for various domains across industries. We are an ISO 9001:2008 Certified India based organization providing comprehensive outsourcing services to 3,100 plus - 80% recurring clients across USA, Europe, Australia and Middle-East. Enhancing your business operations, making them smarter, faster and cheaper has been our ongoing pursuit, backed with two decades of experience. It has helped us evolve into a leading customer centric outsourcing service provider for all your BPO, Software, AEC, and Engineering solutions.

Author: Bhushan Avsatthi