The world of Ivan Dimensions

The story of Ivan Dimensions is a story of vision. It is also a story of perseverance and of the indomitable human spirit, which motivates one to rise above all odds and stop at nothing till the goal is reached. It is also the story of experts who have dedicated their lives to the realization of that grand vision.

Our journey into the AEC industry began with the pioneering vision of our founders. They understood that the AEC industry is in a state of flux. Savage competition along with a rapidly changing technological landscape has increased the demand for better services in the AEC industry. At the same time, it has reinforced the importance of achieving the perfect balance between coordination and planning to successfully execute projects in the construction industry.

Ivan Dimensions was thus set up to address this lacuna by bringing to the table the right blend of technology and expertise. From day one of our foundations, we have been driven by the singular focus to deliver outstanding value to our customers. We are passionate about your success and ensure error-free delivery by following a well-structured process.

We have already established our name by offering exemplary BIM services that adhere to national and international standards. We not only adhere to client requirements but also promote international best practices to our clients.
VISION

To be the go-to place for all building outsourcing-related services and create value for all our stakeholders by offering outstanding services.

To realize our vision, we offer outstanding services to our clients by employing the latest technology like Building Information Modeling (BIM). Before delving deeper into our service offerings, let’s first understand or talk about the benefits of BIM and why you should be adopting it.

BENEFITS OF BIM

- Helps in saving cost, time, and resources
- Helps achieve greater efficiency and shorter project life cycles
- Radically improves communications and multidisciplinary coordination
- Offers more opportunities for prefabrication and modular construction
- Offers results of higher quality
- Reduces the risk at the construction site.
- Helps in Visualizing project before actual construction
- Helps in accurately estimating the quantity of the materials
- Helps to properly install services
Some, of our service offerings for the AEC industry, are listed below.
By using 3D BIM modeling services, a 3D model of the building can be generated—thus helping to identify and address issues in the design phase. By offering a 3D perspective of the building, BIM-based 3D modeling can offer greater project clarity. As compared to traditional 2D drawings, a 3D model offers far greater insights. This helps the various stakeholders to have an understanding of how the structure will actually look like way before the actual construction. It also allows early detection and resolution of clashes. Further, 3D BIM shows a rich three-dimensional world and eliminates the boundaries between reality and imagination.
AEC projects incur substantial losses in terms of cost, time, and resources; if clashes or interference go unidentified in the design phase. Poor coordination and collaboration between onsite and offsite project teams can reduce project quality, efficiency, and productivity- resulting in unnecessary cost & time overruns. As a technical validation process, clash coordination informs about clashes within the models and highlights physical issues with the coordinated design as part of an assurance process. Thus, it allows the collaboration of different trades for fast-paced clash detection and to mitigate site rework.
Scan to BIM/Point Cloud

Scan to BIM is a process of generating a digital representation of an existing building in its current condition with its physical and functional characteristics in BIM. A laser scanner is used to capture an accurate 3D scan of the existing condition of the building, then the point cloud (.rcp) is imported into 3D BIM software (Autodesk Revit, Archicad, etc) to create an accurate as-built model or to capture the design with the real-world conditions for Renovation, Refurbishment, Retrofit or Reconstruction of the building.

4D Construction Simulation

Through the 4D simulation process, we allow you to visualize the work progression in a virtual environment. Using 4D simulation, it is possible to review the construction activity of the project model by comparing it with the real-time schedule. Additionally, 4D simulation helps in connecting multiple stakeholders in real-time throughout the project lifecycle. Thus, you can avoid the hassles of going through pages of Gantt charts, while ensuring on-schedule project completion.
By offering 3D rendered images we can ensure that your marketing presentations are much more interactive, satisfying, and fascinating to your potential clients. We offer Interior Rendered images, Exterior rendered images, Internal walkthroughs, External walk-around, and Bird’s eye view; and thus help you to create a deep and long-lasting impact on the minds of the clients.
By combining Augmented Reality technology with BIM means that we can help you have a virtual walk-through of the site in the design phase. This would help you to have a look and feel of the project in the design phase—reducing construction time and waste while making the process more efficient.
Construction Drawings

We offer detailed construction drawings as part of the construction information to the client. The main purpose of construction drawings is to provide a graphic representation (2d) of what is to be built. Under construction drawing, we offer the following:

- Shop drawing
- Penetration drawing
- General arrangement drawing
- Combined Services Drawing (CSD)
- Single line diagram (SLD), etc.
The collection of asset data, such as building names, room numbers, and names, and equipment information is guided by a standard referred to as COBie (Construction Operations Building Information Exchange). As an international standard, it includes information relating to equipment and space. It also gives us information about the point of origin, including equipment lists, spare parts lists, warranties, product datasheets, and preventive maintenance schedules.
Engagement Models

Model 1:
Fixed scope / Time & Materials

Model 2:
Onsite Skill Supplementation

Model 3:
Onsite-offshore model

Model 4:
Offshore Dedicated Team (Extended Enterprise)
Quality Check

Stage-1 (Self QA/QC)
- Use Checklist and input drawings while modeling
- Self QC & Mark-up update
- Cross check with peer and Mark-up update

Stage-2 (Team Lead QC)
- Review against Checklist
- Review for accuracy, proper family, system, type etc.
- Visual check for shop drawing (aesthetic, alignment etc.)
- Review against client input data, latest drawing, comments etc.

Stage-3 (Project Manager QC)
- Visual check for shop drawing
- Review for interdisciplinary coordination.
- Review against Client data, project design, deliverables etc.
- Review against with client discussion, own technical knowledge & experience.
**IP Protection & Security**

- **Physical Security**
  - 24 Hrs Manned Security
  - Two level of Access Control
  - Removal of Access to DVD / RAM drives
  - Customer specific NDA signed by associates

- **Network Security**
  - Firewall for email exchange
  - Secured FTP for data exchange
  - Full Backup – 15 days, Incremental Backup – Everyday
  - Data in Central Server with Strict Access Control
  - Data returned/deleted after Project Completion

- **ISMS Security**
  - Continuous training to employees to protect Client Interest
  - Information distributed to individuals of same team: on a need basis only