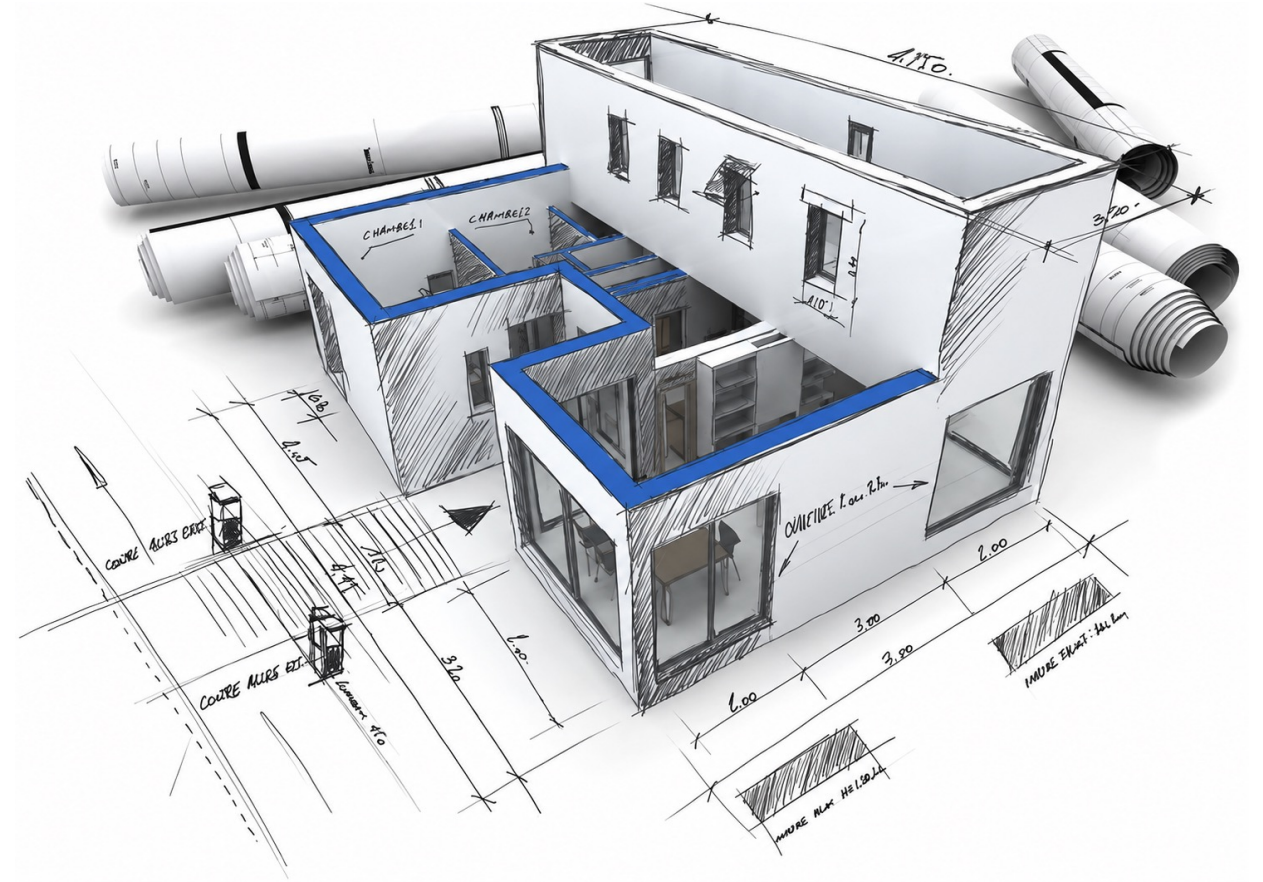




BIM (Building Information Modeling) Services

At IYATTVA LLP, we continuously strive to deliver innovative, efficient, and technology-driven engineering solutions that add value to every stage of the construction process.

Over the years, we have built strong relationships with architects, developers, contractors, project management consultants, and engineering firms through our expertise in Quantity Surveying, BOQ Preparation, Estimation, Bar Bending Schedules (BBS), and Project Support Services.

As part of our commitment to providing comprehensive engineering solutions, we are pleased to introduce our Building Information Modeling (BIM) Services for Civil and Structural Engineering.

BIM is transforming the construction industry by enabling intelligent digital project delivery, improving coordination, minimizing design conflicts, enhancing visualization, and providing accurate information throughout the project lifecycle.

With our combined expertise in engineering and quantity surveying, we ensure that every BIM model is not only technically accurate but also practical for construction, estimation, procurement, and execution.

What is Building Information Modeling (BIM)?

Building Information Modelling (BIM) is a collaborative digital process used to create intelligent three-dimensional (3D) models containing both graphical and engineering information of a project.

Unlike conventional CAD drawings, BIM models are data-rich digital representations that allow all stakeholders—including architects, structural engineers, contractors, MEP consultants, project managers, and owners—to work from a single coordinated model.

The BIM model becomes a centralized source of project information throughout planning, design, construction, and facility management.

Why BIM?

Traditional drawing-based workflows often result in:

- Coordination issues between consultants
- Quantity variations
- Design conflicts during construction
- Repetitive revisions
- Delays in documentation
- Cost overruns
- Increased site errors

Building Information Modeling addresses these challenges by integrating all project information into one coordinated digital environment.

The result is improved efficiency, reduced rework, better communication, and more informed decision-making throughout the project lifecycle.

Our BIM Services

Civil BIM Modeling

Our Civil BIM services include detailed digital modeling of all civil components required for planning, execution, and quantity management.

Scope includes:

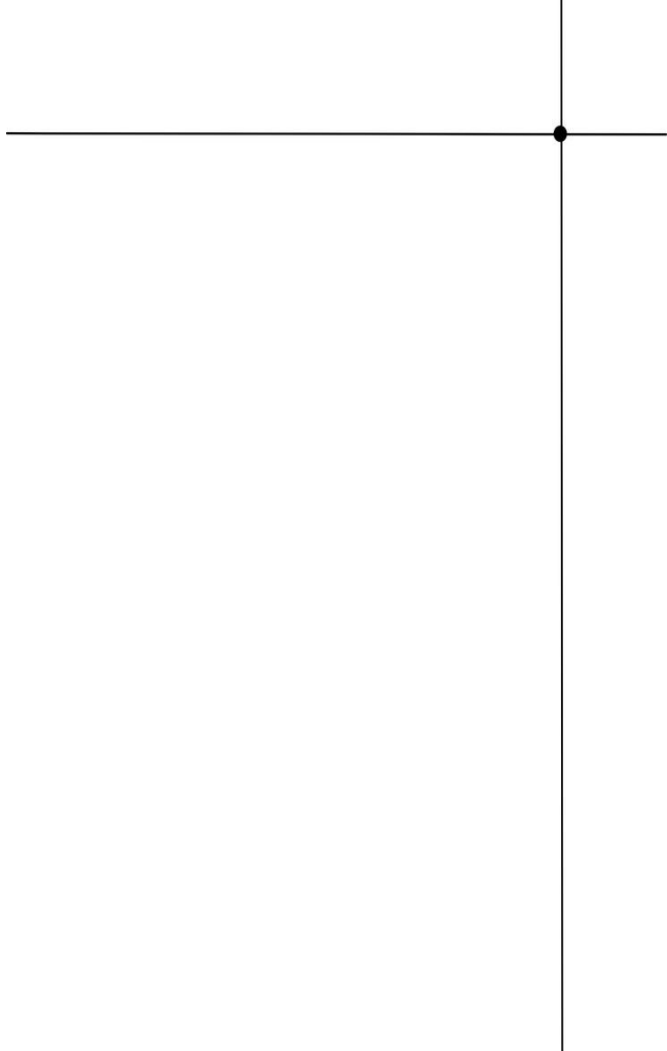
- Site Development Models
- Infrastructure Modeling
- Grading Models
- Road and Pavement Modeling
- Foundation Layouts
- Plinth Beams
- Floor Systems
- Slab Modeling
- Masonry Walls
- Architectural Openings
- Staircases
- Ramps
- External Development Elements

Structural BIM Modeling

We develop highly accurate structural models suitable for construction documentation, quantity extraction, and coordination.

Scope includes:

- RCC Framing Models
- Structural Columns
- Beams
- Slabs
- Shear Walls
- Retaining Walls
- Footings
- Combined Footings
- Isolated Footings
- Raft Foundations
- Pile Caps
- Pedestals
- Tie Beams
- Grade Beams
- Structural Openings



BIM Applications

Our BIM services are suitable for:

- Residential Buildings
- High-Rise Apartments
- Commercial Buildings
- Office Complexes
- Industrial Facilities
- Warehouses
- Educational Institutions
- Hospitals
- Hotels
- Mixed-Use Developments
- Government Projects
- Infrastructure Projects

Our BIM Workflow

Step 1 – Project Assessment

Understanding project requirements, design intent, and client expectations.

Step 2 – Data Collection

Reviewing architectural, structural, survey, and consultant drawings.

Step 3 – Model Development

Developing an accurate BIM model using Autodesk Revit based on approved drawings.

Step 4 – Model Coordination

Coordinating various structural components and ensuring model consistency.

Step 5 – Quality Review

Performing engineering checks to verify dimensions, levels, and constructability.

Step 6 – Quantity Extraction

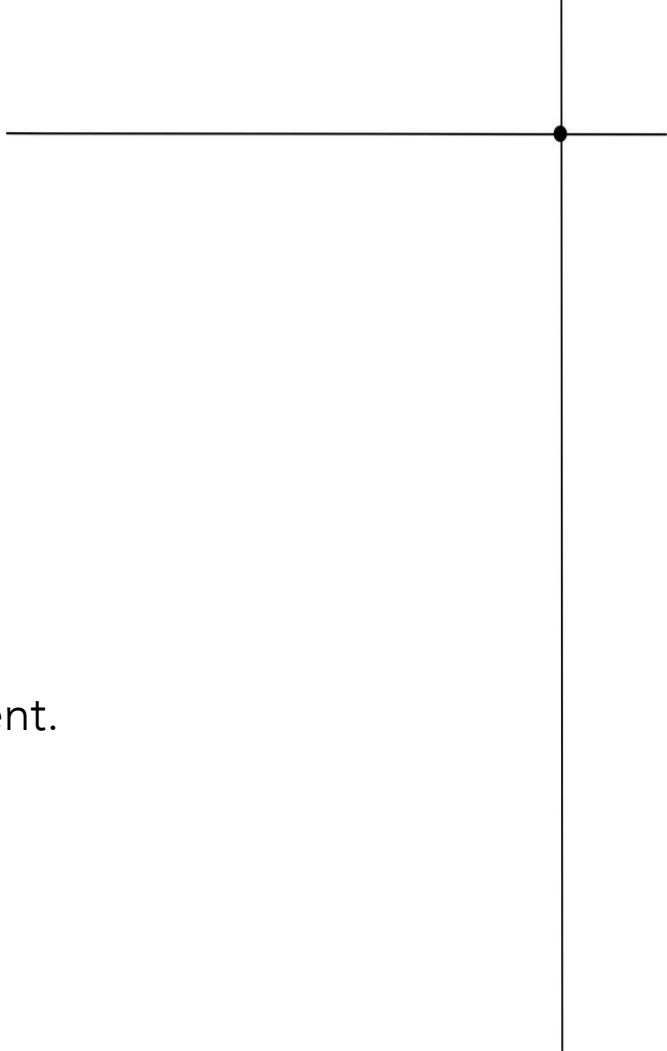
Generating accurate quantity take-offs directly from the BIM model.

Step 7 – Documentation

Preparing construction drawings, schedules, reports, and deliverables.

Step 8 – Client Submission

Delivering coordinated BIM models along with all required documentation.



Key Benefits of Our BIM Services

Better Project Visualization

Visualize the entire structure before construction begins.

Improved Coordination

Reduce conflicts between design disciplines through a coordinated digital model.

Accurate Quantity Take-Off

Generate reliable quantities directly from the model for estimation and procurement.

Reduced Design Errors

Identify inconsistencies early, minimizing revisions during construction.

Faster Documentation

Produce drawings, schedules, and reports more efficiently.

Better Decision Making

Enable project stakeholders to make informed engineering and construction decisions.

Why Choose IYATTVA LLP?

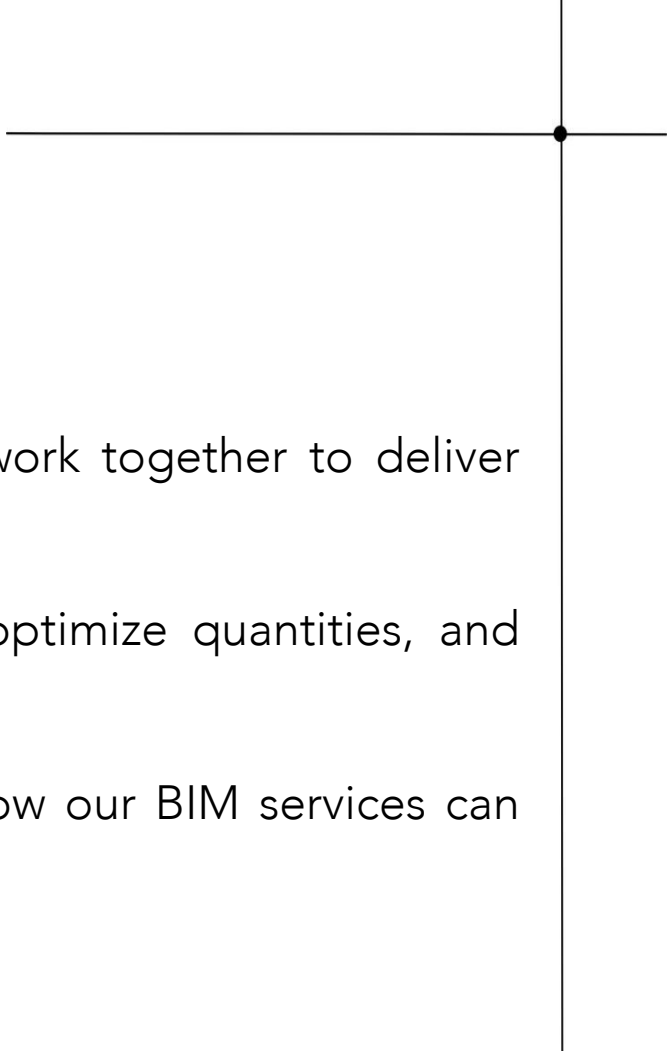
Unlike conventional BIM service providers, our expertise extends beyond digital modeling.

Our foundation in Quantity Surveying, BOQ Preparation, Estimation, and Construction Documentation allows us to create BIM models that directly support project execution and cost management.

Our strengths include:

- Engineering-based BIM modeling
- Quantity Surveying expertise
- Accurate BOQ generation
- Practical construction understanding
- Reliable quantity extraction
- High-quality documentation
- Timely project delivery
- Responsive technical support

Whether your project is in the concept stage or under construction, we provide BIM solutions tailored to your project requirements.



At IYATTVA LLP, we believe that technology and engineering expertise must work together to deliver better construction outcomes.

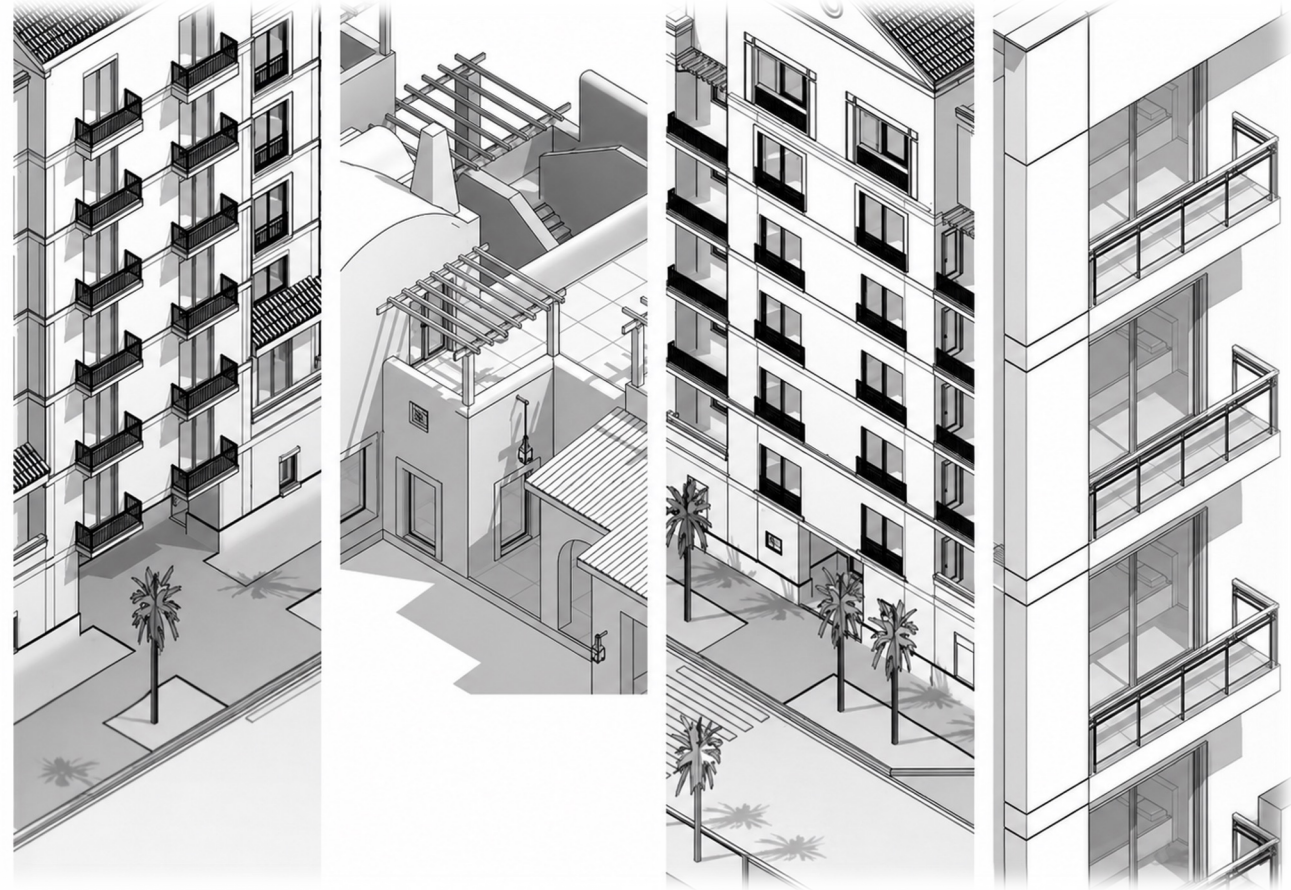
Our BIM services are designed to improve coordination, increase efficiency, optimize quantities, and support informed decision-making throughout the project lifecycle.

We would be delighted to discuss your upcoming projects and demonstrate how our BIM services can contribute to their success.

Thank you for your continued trust and partnership.

Contact Us

- BIM (Building Information Modeling)
- Quantity Surveying
- BOQ Preparation
- Cost Estimation
- Project Support Services



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