

BIM Consultancy

Revolutionizing AEC Industry

ABOUT **REPL**

Rudrabhishek Enterprises Limited (REPL), with a legacy of more than 30 years, has become an established brand in the domain of Urban Development & Infrastructure Consultancy. The Group has successfully planned and delivered complex assignments of diverse nature such as Residential, Commercial, Group Housing Integrated Township projects; Hospitals, Hotels & Recreational facilities; Water Supply, Sewerage & Sanitation Systems Regional Plans and Master Plans.

REPL is extensively associated with GOI's flagship programs such as Smart Cities, AMRUT, PMAY, Jal Jeevan Mission, DAY-NULM, PMGSY & Skill India Mission at multiple locations under various capacities. Our strength lies in integrating a range of services and providing end-to-end solutions to the clients.

We are providing comprehensive BIM consultancy services to infrastructure and AEC industry. We offers overall services, support and training. BIM is technologically advanced and cost effective solution for the industry.

IN NUTSHELL

● **30+ years of Legacy | 200 + Consultants | 30+ Empanelment** ●
Listed at NSE | Diversified Sectors | Pan India Footprints

ABOUT BIM

BIM is a process for creating and managing all of the information on a project - before, during and after construction. The output of this process is the Building Information Model, the digital description of every aspect of the built asset.



- All discipline model
- Model authoring, clash detection & coordination
- BOQ extraction
- Sheet preparation
- Existing Conditions Models
- Safety & Logistics Model
- Animation Renderings Walkthroughs
- As-built model



SCHEDULING

- Linking 3D Model with construction schedule
- Simulation for control & monitoring
- Visual Validation for Quantities



ESTIMATION

- Quantification for Accurate estimation for tendering
- Accurate budgeting
- Cost scheduling



SUSTAINABILITY

- Conceptual Energy Analysis
- Detailed Energy Analysis
- Sustainable Element Tracking
- LEED Tracking



FACILITY MANAGEMENT APPLICATIONS

- Life Cycle BIM Strategies
- BIM As-Builts
- BIM Embedded Q&M Manuals
- BIM Maintenance Plan & Technical Support
- Record modeling
- Asset Management
- Graphic & non-graphic informatic linking

Our Cutting Edge BIM Specialty

Ease of Construction & Project Management

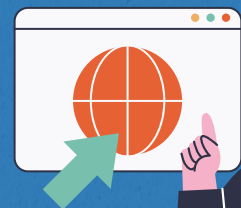
- ▶▶ Efficient use and scheduling of labor, material & resource
- ▶▶ Accurate cost & quantity take off estimates
- ▶▶ Improved quality of data for quick decision making
- ▶▶ Just in time construction material ordering
- ▶▶ Improved planning & onsite logistics coordination

Cost Saving & Marketing Facilitation

- ▶▶ Reduction in clashes & conflicts during construction
- ▶▶ Significant reduction in RFI's and administration cost
- ▶▶ Outstanding visualization for marketing purpose

Compliance

- ▶▶ Adhering to strict building regulation
- ▶▶ Ease in fetching data for reporting



Our BIM Services

Architecture BIM Services

- ▶▶ Concept Design
- ▶▶ Schematic Design
- ▶▶ Detailed Design
- ▶▶ 3D Modeling Navigation
- ▶▶ 2D Documentation

Structure BIM Services

- ▶▶ 3D Modeling with BIM Structure
- ▶▶ Reinforcement Modeling
- ▶▶ Clashes & Collision in Structure
- ▶▶ Analytical Structural Modeling

MEP Services

- ▶▶ Mechanical
- ▶▶ Electrical
- ▶▶ Plumbing
- ▶▶ Fire Protection

Energy Optimization Through BIM

Assisting the client sustainability consultant with conceptual analysis for the followings:

- ▶▶ Building Orientation
- ▶▶ Building Massing
- ▶▶ Daylighting Analysis
- ▶▶ Energy Modeling
- ▶▶ Sustainable Materials

Value Engineering

Assisting the client sustainability consultant with conceptual analysis for the following:

- ▶▶ Clash Detection & Resolution
- ▶▶ Design Optimization & Virtual Commissioning
- ▶▶ Facility Management Digital Twin

Scan to BIM

- ▶▶ Project Planning
- ▶▶ Scanning
- ▶▶ Data Processing
- ▶▶ Modelling
- ▶▶ Quality Control & Validation
- ▶▶ Delivery & Application

Engineering, Procurement & Construction

BIM Level 2

- ▶▶ Fabrication Detail Drawings
- ▶▶ Shop Drawings
- ▶▶ As Build Drawings

4D & 5D Profitability Analysis

- ▶▶ Construction Sequencing, Time-Lining & Simulation
- ▶▶ Quality Scheduling from a BIM Model
- ▶▶ Project Cost Analysis

BIM Consulting & Model Management

- ▶▶ Bid Support and Animation
- ▶▶ Strategic Implementation
- ▶▶ BIM Based Project Managemnt
- ▶▶ Model Management
- ▶▶ Auditing, Validation and Verification
- ▶▶ Coordination/Model Checking
- ▶▶ Preparing BIM execution Plan & EIR
- ▶▶ Implementation of CDE

6D & 7D Sustainability & Facility Managemnt

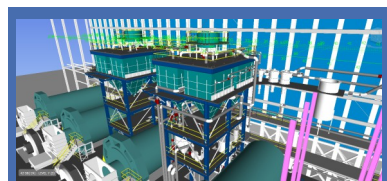
- ▶▶ Optimize the energy consumption
- ▶▶ Manage the operation & maintenance of the facility through its life cycle.

Industrial Project

Arcelor Steel Plant*

Port Cartier, Canada

Reality Capture Precision, Advanced Revit Authoring, Coordinated Workflow, Fabrication-Ready Detailing, QA/QC Verification, Data Integrity & Traceability, fully coordinated fabrication-ready As-Built LOD 400 BIM Model.



*Industrial Project Prototype

Indicative Projects

Chennai Metro Rail

Client: **Chennai Metro Rail Limited (CMRL)**
Length: **118.90 Km of Phase 2** Status: **Ongoing**

Scrutinizing, managing and ensuring proper BIM delivery for Civil, Architectural, Structural, MEP etc. Project also covers alignment, stations (both underground & elevated), tunnels, viaduct & depot work

Madhya Pradesh High Court, Jabalpur

Client: **Public Works Department, MP**
Area: **12,28,000 Sq. Ft.** Status: **Ongoing**

Building equipped with latest facilities with digital technologies to support e-governance. There are 60 Nos. of courtrooms and seating facilities for 5,000 lawyers. It also has a separate Bar Room for women advocates. LOD 500 BIM model preparation with GFC and shop-drawing creation.

Indore District Court, M.P.

Client: **Public Works Department, MP**
Area: **9,88,105 Sq. Ft.** Status: **Ongoing**

Building equipped with latest facilities on 20 acres of land, including provisions for e-courts, VC, e-proceedings, and e-filing. These features aim to enhance accessibility, affordability, and transparency in the justice system while reducing paper usage for environmental conservation. LOD 500 BIM model preparation with GFC and shop-drawing creation. Virtual reality integration for model viewing.

Dream Valley Phase III

Client: **Dee Vee Projects Limited**
Area: **2178895 sq. Ft.** Status: **Ongoing**

Amrapali Dream Valley phase-III is in Gr. Noida, U.P. Currently in RIBA Stage 5 (Construction). We are as, Developing a BIM model up to LOD 500 of 6 Nos of Residential towers (2B+STILT/Podium+30) and 1 Nos of Club Building (G+1). There are total 719 flats.

Ujjain Medical College

Client: **J.P. Structure Pvt. Ltd.**
Area: **11,00,000 Sq. Ft.** Status: **Ongoing**

Upgradation of existing BIM model to a 5D BIM model along with detailed shop drawing creation. It also involves on-site BIM coordination with client's team to ensure seamless execution. Daily progress reports will be prepared and integrated with BIM model for real-time tracking. Project planning support will be provided using BIM tools and Critical Path Method to enhance efficiency & decision-making.

Paarth Arka, Lucknow

Client: **Paarth Infrabuild**
Area: **4,96,504 Sq. Ft.** Status: **Completed**

It is a semi-luxury group housing located in the upcoming IT hub and sports complex along 45m wide road. One of the first residential building to be registered as Leed Gold Rated in Lucknow.

Despecto Knowledge Centre

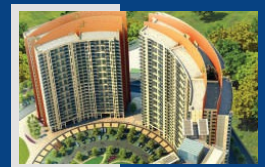
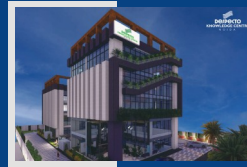
Client: **Despecto Realtors India**
Area: **1,27,678 Sq. Ft.** Status: **Ongoing**

It is LEED Certified Platinum rated Office Building (double basements + G + 4) with amenities like health club, creche, library, office spaces, incubation centre etc. Green elements like horizontal green balconies and terrace gardens are introduced in design to reduce the carbon footprint of the building.

Royal Orchid Hotel, Lucknow

Client: **Royal Orchid Hotel**
Area: **2,40,000 Sq. Ft.** Status: **Ongoing**

Integration of Architecture and MEPF services within the BIM model, ensuring effective clash resolution and model coordination. It also covers preparation of GFC drawings and integration of the BIM model with a Building Management System (BMS) - based dashboard to enable efficient facility management & operations.



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