



aarvee associates
architects engineers & consultants pvt. ltd.

**EMBRACE THE FULL SPECTRUM OF
BIM LIFECYCLE INNOVATION**

with Digital Engineering Intelligence from Aarvee Associates

About Aarvee

Aarvee Associates Architects Engineers & Consultants Pvt. Ltd., stands as India's foremost multi-disciplinary infrastructure consultancy established in 1989 in Hyderabad, India. We have rapidly growing global footprint with subsidiary companies in Australia and United Kingdom and branch offices in Tanzania, Kenya, Ethiopia, Mozambique, Oman and - Kaza khstan. Our global outposts seamlessly complement our Indan branch offices in Ahmedabad, Bengaluru, Bhubaneswar, and New Delhi.

Our commitment to excellence has enabled us to have a legacy of successfully delivering over 2,500 assignments in over 20 countries of the world. We continue to work on projects funded by various international agencies including the World Bank, Asian Development Bank (ADB), Japan International Cooperation Agency (JICA), African Development Bank (AfDB), New Development Bank (NDB), Asian Infrastructure Investment Bank (AIIB) and the EXIM Bank of India.

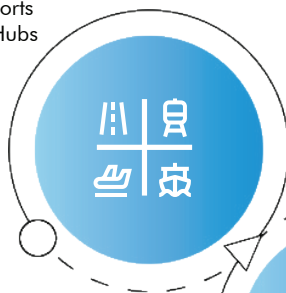
Our strength lies in our extensive team of over 3,000 highly qualified and experienced professionals coupled by our comprehensive technical expertise spanning all sectors of the infrastructure industry. We also have a full-fledged material investigation laboratory and excellent in-house survey capabilities, both of which greatly augment the value we deliver in our projects.

With a single-minded focus on exceeding client expectations, our work is characterised by unwavering commitment, utmost reliability, exceptional quality, and on-time delivery.

Our Expertise

TRANSPORTATION

Rail & Metro Rail, Highways & Bridges,
Ports, Ropeways, Airports
Multi-modal Logistic Hubs



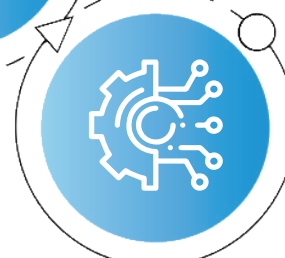
WATER

Irrigation & Water Resources,
Environmental & Climate Resilience
Studies, Water supply, Waste Water &
Storm Water



URBAN DESIGN

Architecture & Buildings, Smart Cities &
Urban Design, Urban Planning,
Blue-Green-Grey
Infrastructure Integration



OTHERS

Digital Engineering, Geospatial Services,
Aerial Survey, Power & Energy,
Oil & Gas, Mining

Why Choose US

TECHNICAL EXCELLENCE

We excel in delivering designs and solutions that are not only easy to implement but also cost-effective to construct, ensuring efficiency and practicality in every project.



EXCEPTIONAL QUALITY

Our relentless pursuit for perfection is evident in every aspect of our work, upholding the highest standards of quality to exceed client expectations.

INNOVATION

We embrace technological advancements to elevate the efficiency and quality of our solutions, constantly pushing the boundaries to bring innovative and effective approaches to our projects.



COMMITMENT TO TIMELINES

Precision in meeting deadlines is a cornerstone of our service. We are committed to ensuring timely delivery with unwavering accuracy.

UNWAVERING INTEGRITY

Upholding our commitment towards projects and clients, we operate with unwavering integrity, fostering trust and transparency in every interaction.



“Leveraging extensive cross sector experience, we are your **One-Stop Solution** for a comprehensive, multidisciplinary problem solving approach”

Services we offer



At Aarvee Associates, we excel in providing integrated consultancy services that seamlessly guide projects through every stage, from Concept to Commissioning.

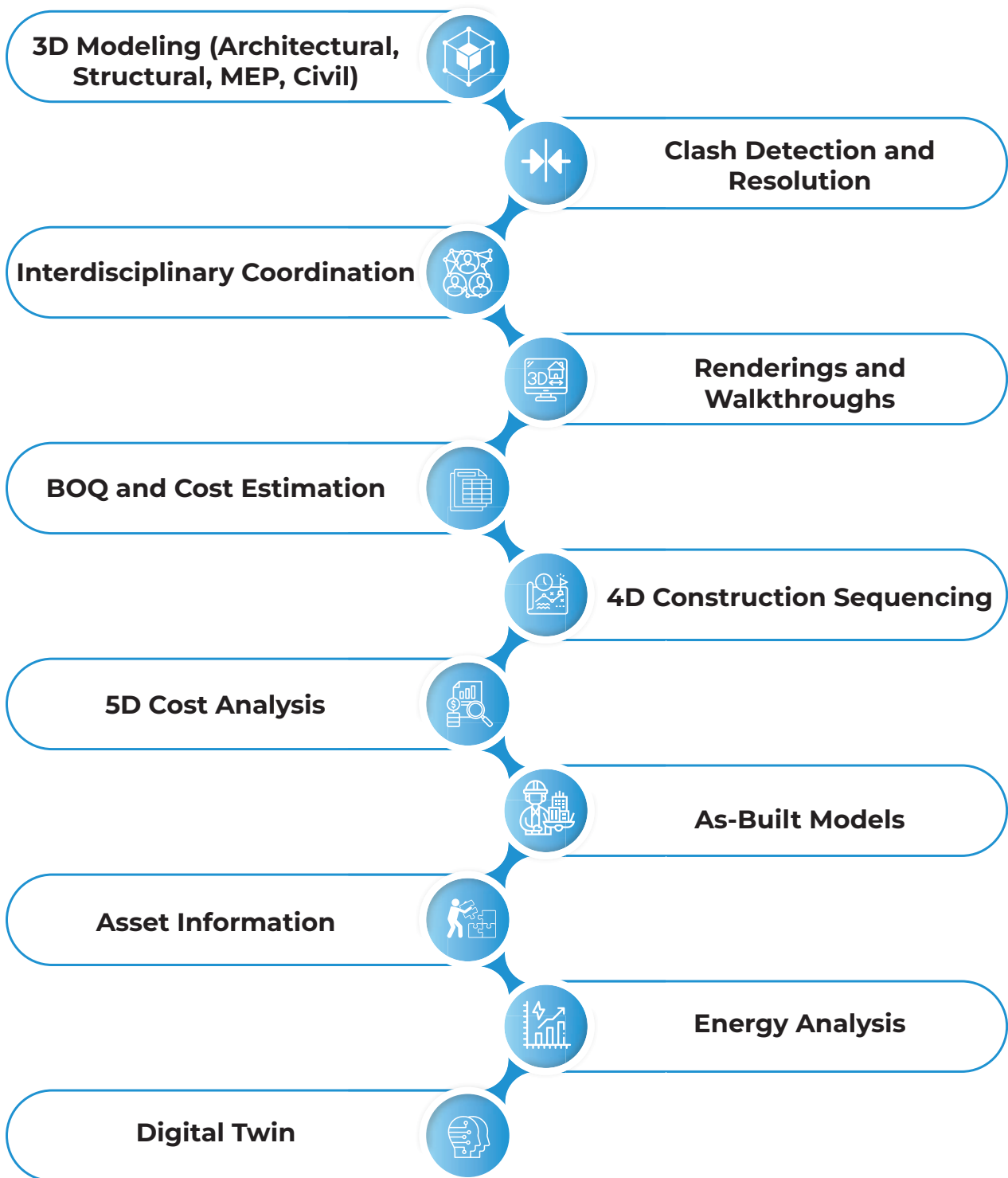
We go above and beyond by serving & ensuring the integrity of each project we undertake. Our unwavering commitment to quality is evident through the meticulous implementation and control processes. Furthermore, we leverage cutting-edge technologies, to enhance the precision and efficiency of our services.

We take immense pride in delivering excellence across the entire project spectrum, consistently meeting and exceeding the diverse needs of our clients. Our capabilities span a wide range of Services

- » Feasibility & Conceptual Studies
- » Detailed Project Report
- » Detailed Engineering
- » Pre-bid & Detailed Engineering Services for PPP / BOT Projects
- » Project Management Consultancy / Construction Supervision
- » General Consultancy Services
- » Lenders Engineer / Independent Engineer Services
- » Third Party Quality Assurance & Control
- » Building Information Modeling (BIM)
- » Digital Engineering
- » Master Planning
- » Survey
- » Asset Management

What we offer in **BIM**

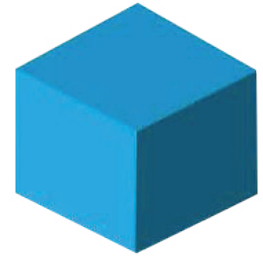
Building Information Modeling (BIM) serves as a digital portrayal of both the physical and functional attributes by seamlessly merging 3D modeling with information-rich data. We facilitate seamless collaboration among Architects, Engineers, and Construction Experts across the entire project life cycle. Our holistic approach not only enhances efficiency and minimizes errors but also elevates decision-making through a dynamic overview of the construction process.



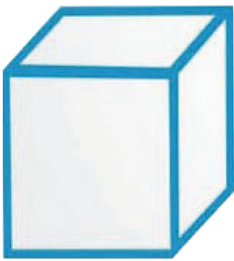
LOD Stages in BIM

LOD 100 – Conceptual Design

- » Preliminary and Conceptual stage of model development
- » Identification and definition of parameters
- » Early Stage visualization and feasibility studies
- » Mass representation to illustrate project elements.
- » Facilitate initial design discussions and fundamental understanding of project.



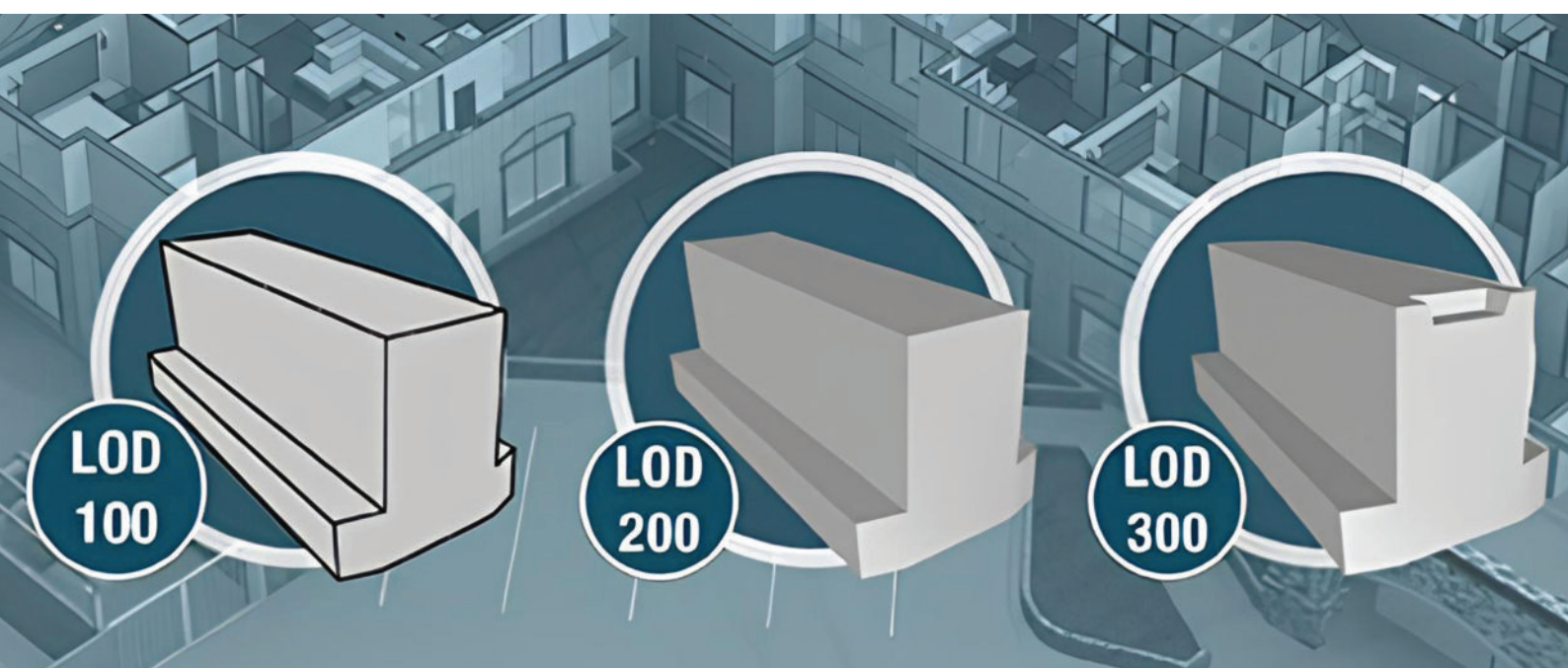
LOD 200 – Schematic Design



- » Approximate detail of quantities, size, shape, location and quantities.
- » Display of geometric features like shapes and dimensions.
- » Approximate outline for construction documentation.
- » Information for cost estimation and spatial coordination.
- » Incorporate non geometric information.
- » Material relationship between elements is defined.

LOD 300 – Detailed Model

- » Comprehensive information required for construction documentation.
- » Accurate dimensions, sizes, quantities, orientation and location.
- » Relationship with specific materials and finishes and performance characteristics.
- » Foundation for creating detailed shop drawings.
- » Detailed information on Architectural and Engineering drawings.
- » Clash analysis and construction stage documentation.



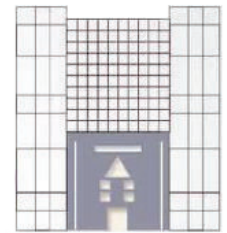
LOD 350 – Model for Construction



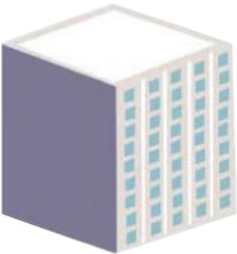
- » Precise information on specific systems, assemblies and individual components required for installation.
- » Important for coordinating with different vendors and subcontractors.
- » BIM coordination to avoid interface issues during construction phase.
- » Asset management.

LOD 400 – Fabrication & Assembly

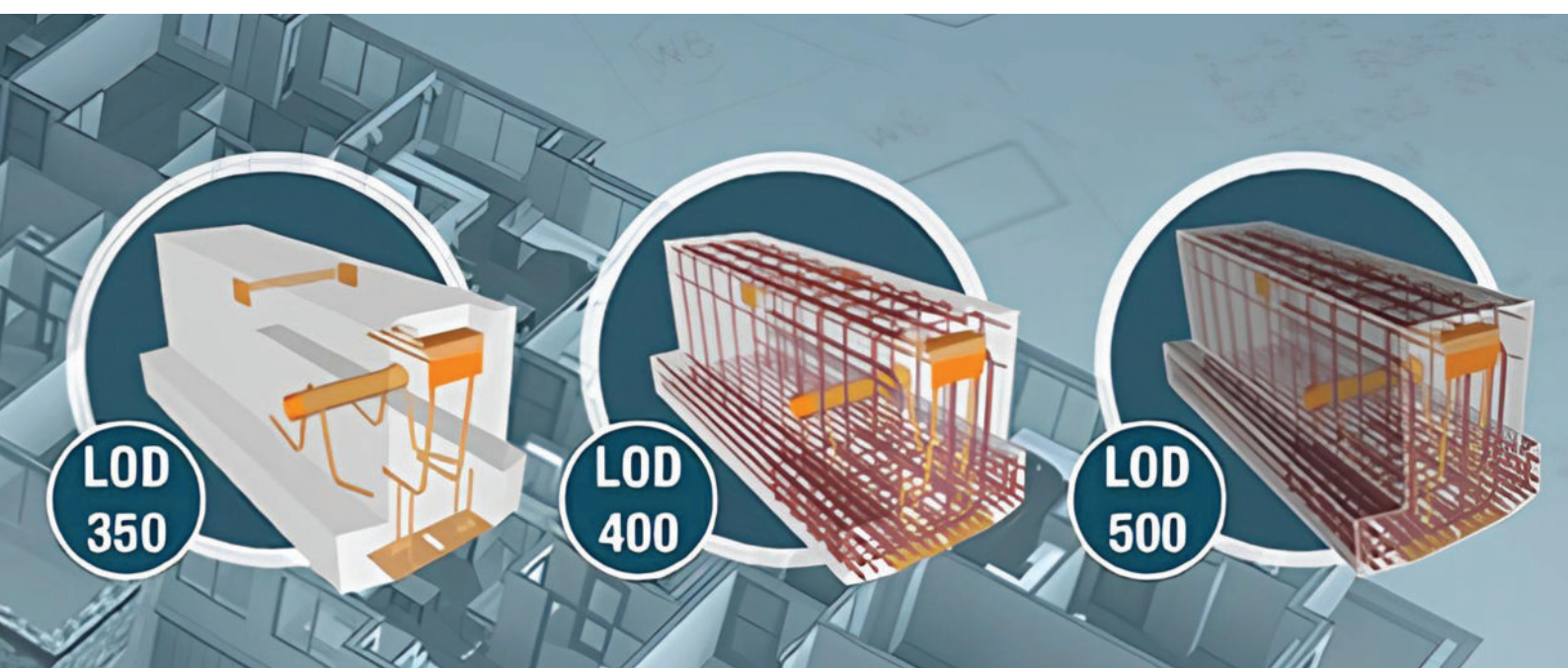
- » Construction stage outlining fabrication, assembly, and installation details.
- » Provide manufacturers information directly for production.
- » Information can be directly provided to manufacturers for building component production and may include non-visual information.
- » Streamline the construction process more efficiently by cutting down on waste using COBie data.



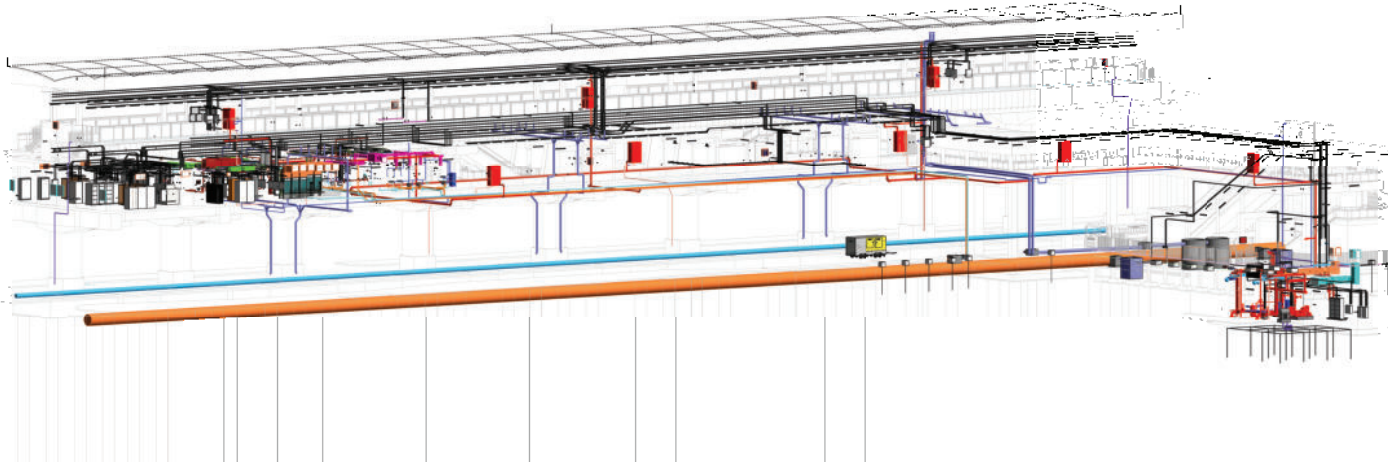
LOD 500 – Final Model



- » Post construction, as-built stage with verified fields for size, location, quantity, orientation, and shape to reflect actual build reality.
- » Reference for project managers in operation, maintenance, and life cycle management.
- » Integration of LOD 300 model with LOD 400 fabrication data for final development.
- » Creates a digital twin for future renovations and expansions.
- » The elements act as precise post-construction representations, offering a dependable reference for facility managers during operation and maintenance.



Project Snapshots



Location	Chennai, Tamil Nadu, India
Client	Chennai Metro Rail Ltd.(CMRL)
Scope of Work	18 Elevated Metro Stations Detail Designing, BIM Modeling Conceptual Layout Planning Review of Alignment at stations Viaduct Design, Station Entry Exits 3D renderings Walk-throughs Design Optimization GFC Drawings

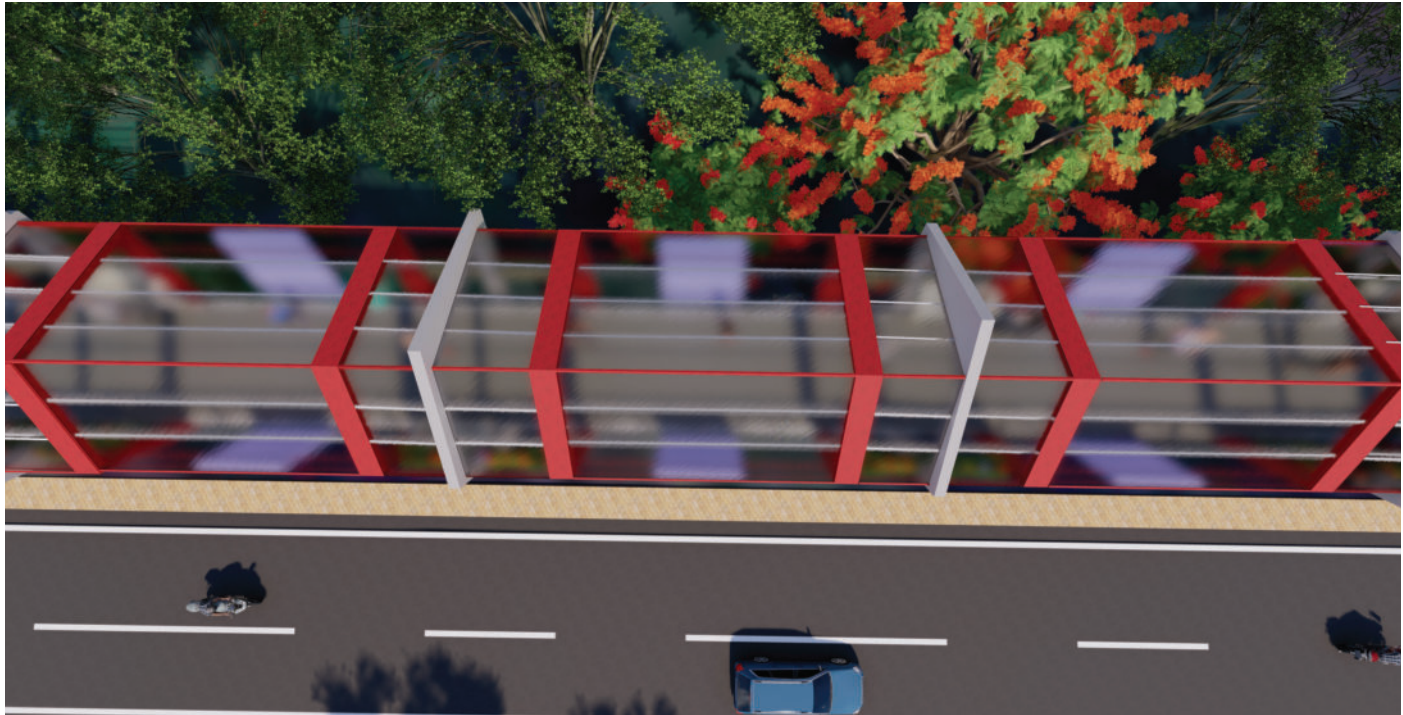
Chennai Metro Phase 2 Corridor IV





Foot Over Bridge - IISc Bangalore to Yeswanthapur railway station creates a network of connections for pedestrians

Location	Bengaluru, Karnataka, India
Client	BMRCL
Scope of Work	<ul style="list-style-type: none"> Detail Design for Foot Over Bridge Architectural Conceptual Report Field Investigations Traffic Assessment Structural modeling Integrating with potential nodes 3D rendering, Walkthroughs Design support during construction





A sneak peek into the BIM model created for the Security Building at Chhatrapati Shivaji Maharaj International Airport, Mumbai to deliver Detail Designs and Construction Documentation.

Station redevelopment



Location

Vijayawada, Andhra Pradesh, India
Surendranagar, Gujarat, India
Wankaner, Gujarat, India
Dwarka, Gujarat, India
Vishwamitri, Gujarat, India
Pratapnagar, Gujarat, India
Bharuch, Gujarat, India
Ankleshwar, Gujarat, India
Maksi, Madhya Pradesh, India
Meghnagar, Madhya Pradesh, India
Sehore, Madhya Pradesh, India
Laxmibainagar, Madhya Pradesh, India

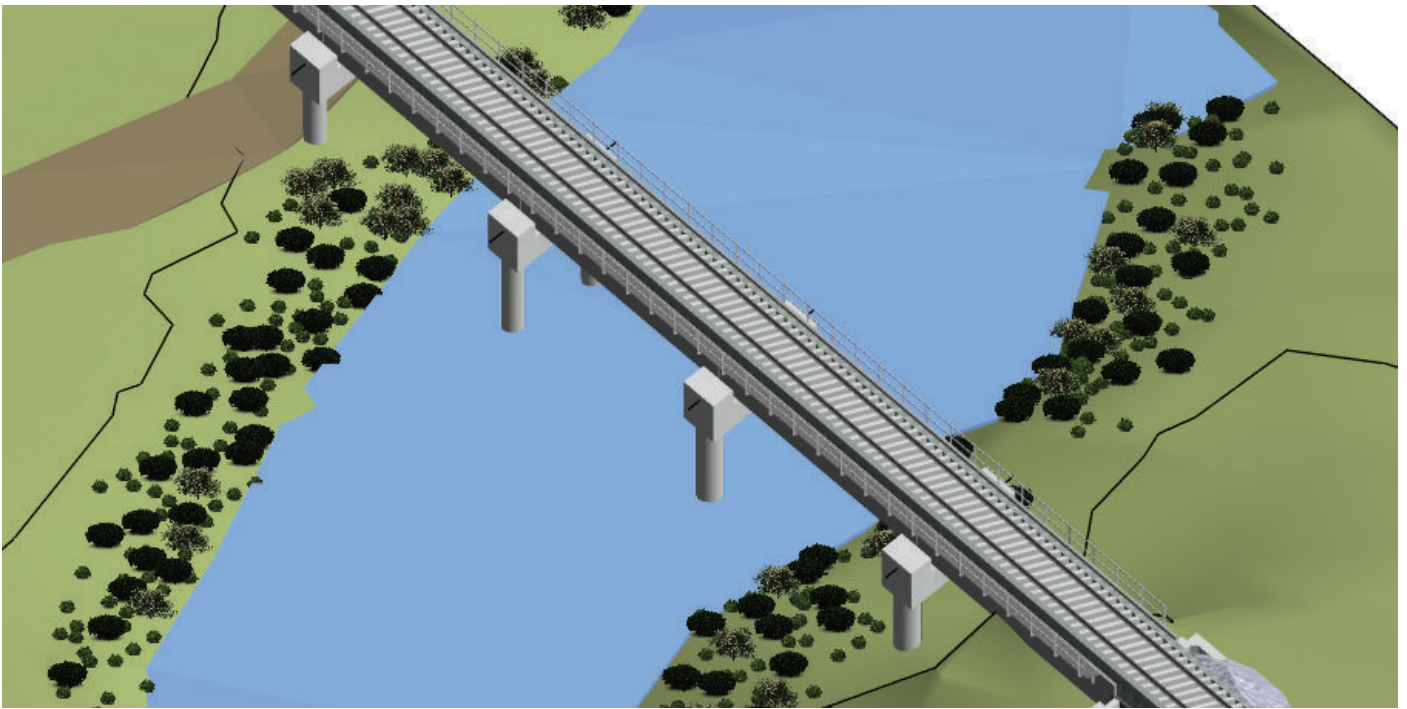
Client

RLDA / Gati Shakti

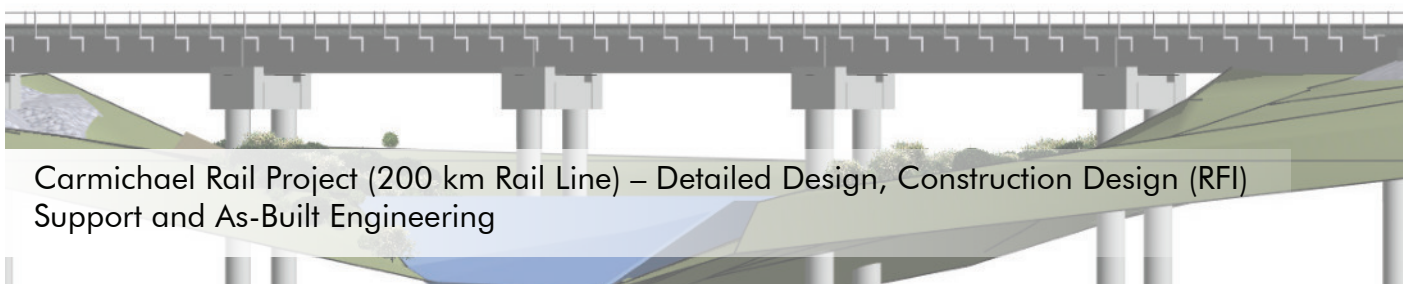
Scope of Work

Station Buiding design, Landscaping Facilities,3D rendering, Walk-throughs, BIM modeling





Location	Carmichael Mine, Australia
Client	Bowen Rail Company
Scope of Work	<ul style="list-style-type: none"> Detailed Design IFC drawings, Reports, Memo, BOQ and Modeling 3D Rendering Safety in Design Value Engineering Rail Alignment Flood, hydrology, and hydraulic modeling, analyses Geotechnical interpretive works and designs Earthworks and formation designs Drainage designs for cross, on, and off-formation structures Track structure and associated track infrastructure Rail service track design National stock route (NSR) crossing designs. Utility crossing designs and protection treatments Occupational crossings (at grade and grade-separated) Fauna crossing structures Two roads over CRN rail overpass bridges Twenty-three rail over waterway bridges



Carmichael Rail Project (200 km Rail Line) – Detailed Design, Construction Design (RFI) Support and As-Built Engineering

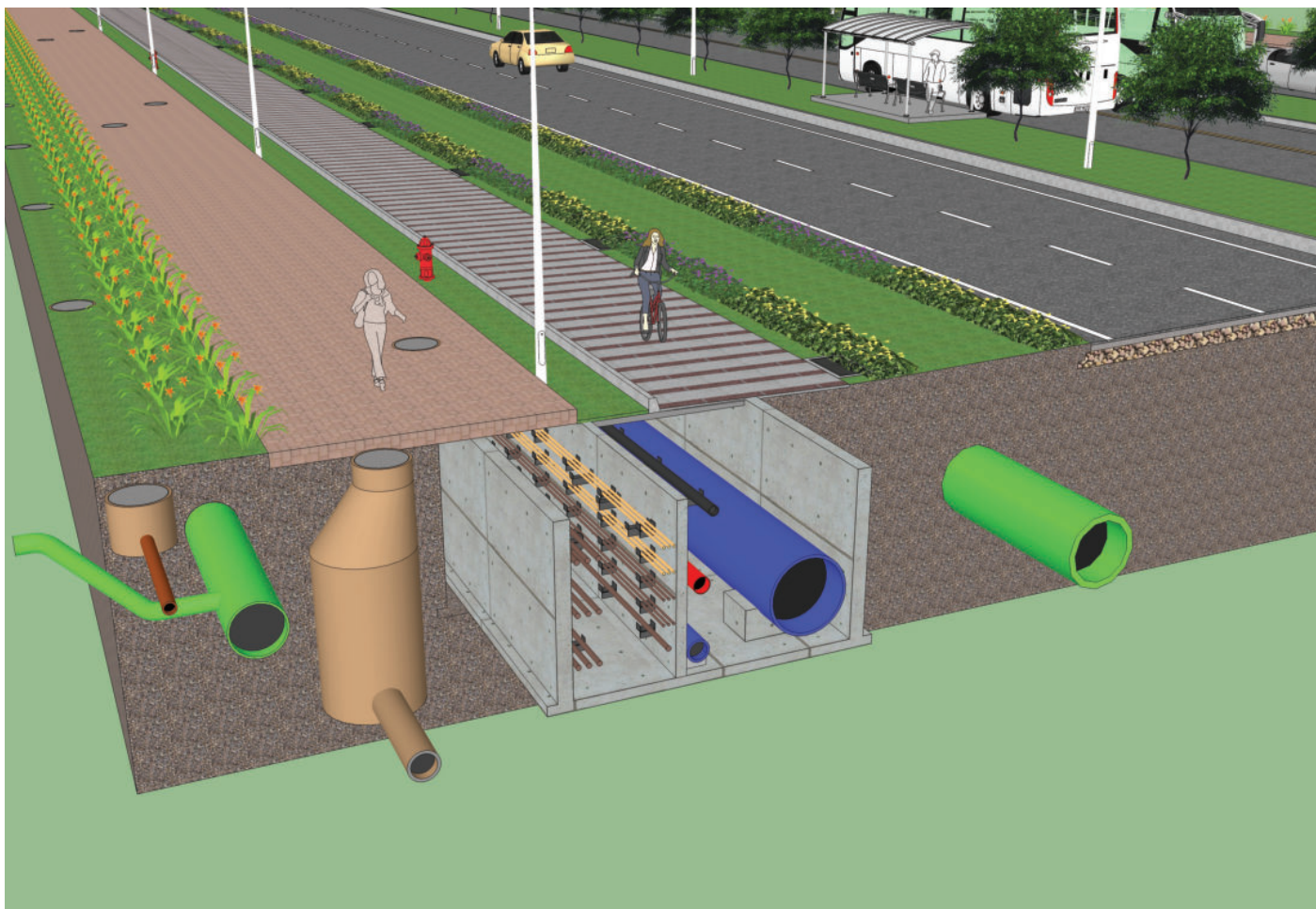
Location	Amaravathi, Andhra Pradesh, India
Client	APCRDA
Scope of Work	BIM modeling using Navisworks & Infracore 3D Visualization & Clash Analysis Smart Integrated Infrastructure Master Plans Roads and Transportation Water Supply (including Firefighting) Wastewater (including Urban Irrigation with Reuse/Recycle) Storm Water Drainage Smart Power Integrated Solid Waste Management Gas Pipeline and Distribution Information and Communication Technology (ICT) District Cooling Safety and Security Disaster Management Plan



Smart Integrated Infrastructure Master Plan and Detailed Project Report for Phase 1 Infrastructure at Amaravati Capital City.

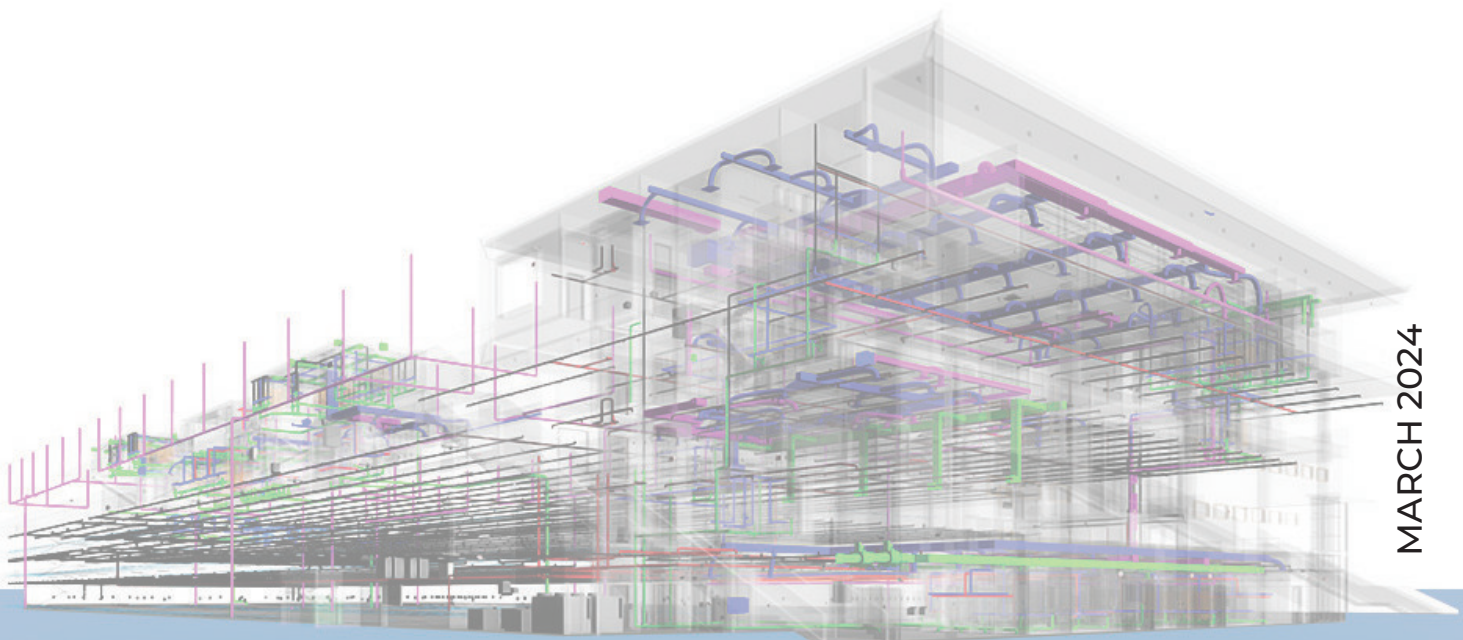


Location	Karimnagar, Telangana, India Prayagraj, Uttar Pradesh, India
Client	Smart City Limited
Scope of Work	<ul style="list-style-type: none"> Area Based Development (ABD) Urban Transportation Riverfront development Slum Rehabilitation, Affordable Housing Water Supply, Sanitation Sewerage, Solid Waste Management Smart Governance Digital and Energy Infrastructure Strategic Advisory Project Management Consultancy 3D Rendering and Walk-throughs



BIM Tools

We lead in BIM-driven excellence, utilizing cutting-edge software tools to revolutionize Construction and Design. Our expertise in a variety of BIM tools allows us to tailor solutions to meet specific project needs, ensuring precision and seamless collaboration from Concept to Completion





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To the New Beginnings




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