INSIGHT™

Simplify your engineering & technology efforts

TECHGENICS INSIGHT ENGINEERING & CONSULTING PRIVATE LIMITED

MEP

CONSULTANT

Design. Supervision,Commissioning





ABOUT US

Welcome to **TIECPL** (Techgenics Insight Engineering and Consulting Pvt. Ltd.), a powerhouse in the construction and design industry, where innovation, expertise, and a passion for excellence converge since 2018. TIECPL is a premier MEP consultancy firm dedicated to delivering cutting-edge solutions in mechanical, electrical, and plumbing engineering. With a proven track record of excellence and innovation, we specialize in providing comprehensive MEP design, consultation, and project management services to clients across various industries.

OUR VISION

At TIECPL, our vision is to be at the forefront of transformative construction, creating sustainable spaces that seamlessly blend aesthetics, functionality, and structural integrity.

OUR EXPERTISE

our team of seasoned engineers and consultants brings together a wealth of expertise and experience in MEP systems design and implementation. From high-rise commercial developments to intricate industrial projects, we have the knowledge and skills to deliver solutions that meet the most demanding requirements.

OUR APPROACH

We believe in a collaborative approach to MEP consulting, working closely with our clients to understand their unique needs and objectives. By leveraging the latest technologies and industry best practices, we develop tailored solutions that optimize energy efficiency, minimize operational costs, and enhance occupant comfort and safety.

Delivering Results
Exceeding Expectations



MEP DESIGN SERVICES

1. **Mechanical Systems Design:**
   - Heating, Ventilation, and Air Conditioning (HVAC) design
   - Central plant design
   - Energy-efficient HVAC systems
   - Indoor air quality management
   - Thermal comfort analysis
   - Load calculations and equipment sizing
   - Ductwork design and layout
   - Equipment selection and specification

2.Electrical Systems Design:

   - Power distribution systems design
   - Lighting design
   - Emergency power systems (UPS, generators)
   - Electrical panel and switchgear design
   - Grounding and lightning protection
   - Electrical load analysis
   - Voltage drop calculations
   - Lighting control systems
   - Renewable energy integration (solar)



MEP DESIGN SERVICES

3.Plumbing Systems Design:

- Water supply and distribution systems design
- Sanitary drainage systems design
- Stormwater management
- Domestic hot and cold water systems design
- Plumbing fixture selection and specification
- Fire protection systems design (sprinklers, standpipes)
- Plumbing riser diagrams
- Water conservation and sustainability measures

4.Fire Protection Systems Design:

- Fire sprinkler systems design
- Fire alarm systems design
- Smoke control systems
- Fire pump and water storage tank design
- Fire suppression systems design (gaseous, foam)

5.Building Information Modeling (BIM) Services:

- 3D modeling of MEP systems
- Clash detection and resolution
- MEP coordination
- BIM coordination meetings
- As-built modeling and documentation



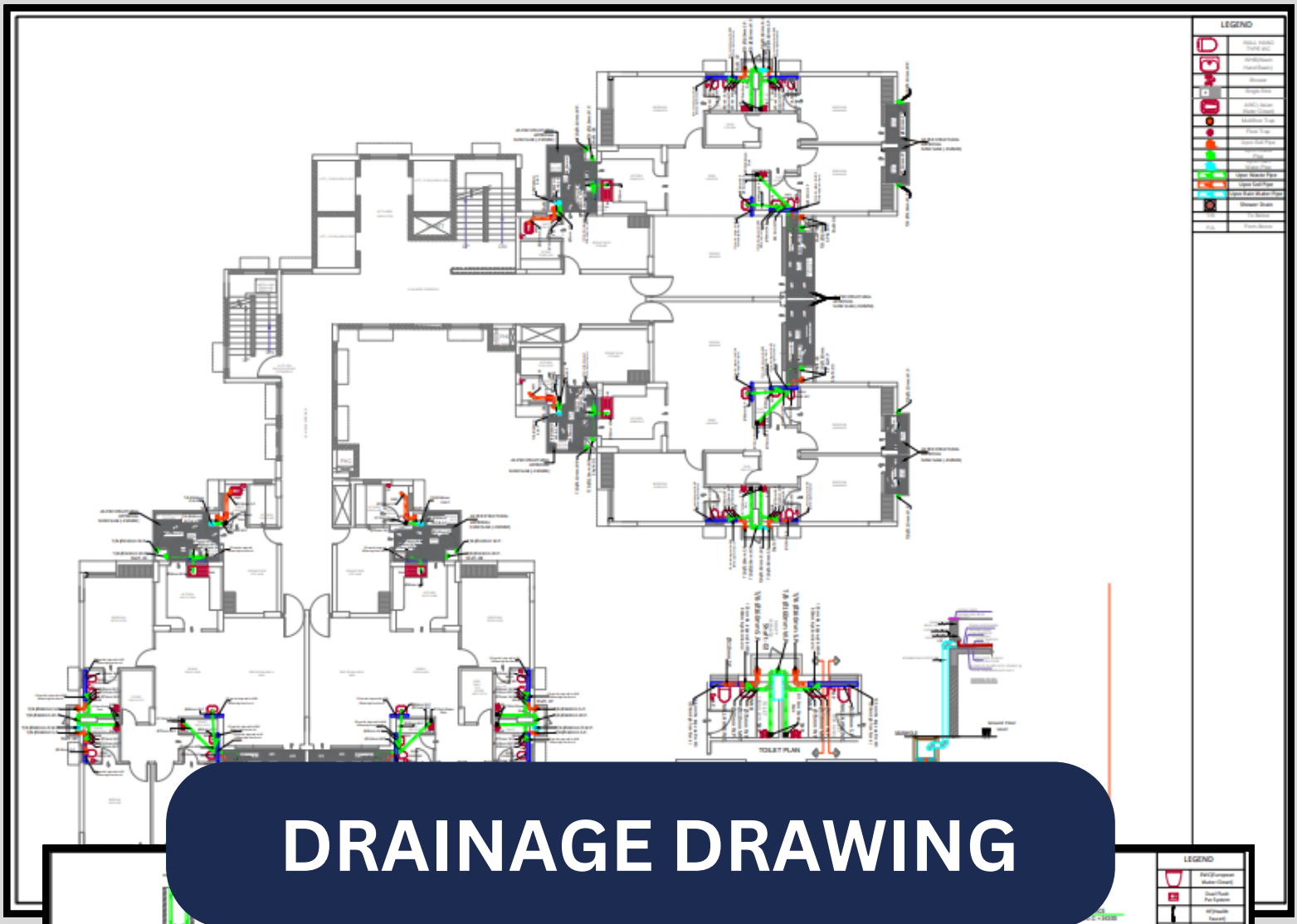
MEP DESIGN SERVICES

6.**Energy Modeling and Analysis:**
- Energy performance modeling
- Life cycle cost analysis
- Energy simulation and optimization
- Energy code compliance analysis
- LEED certification support

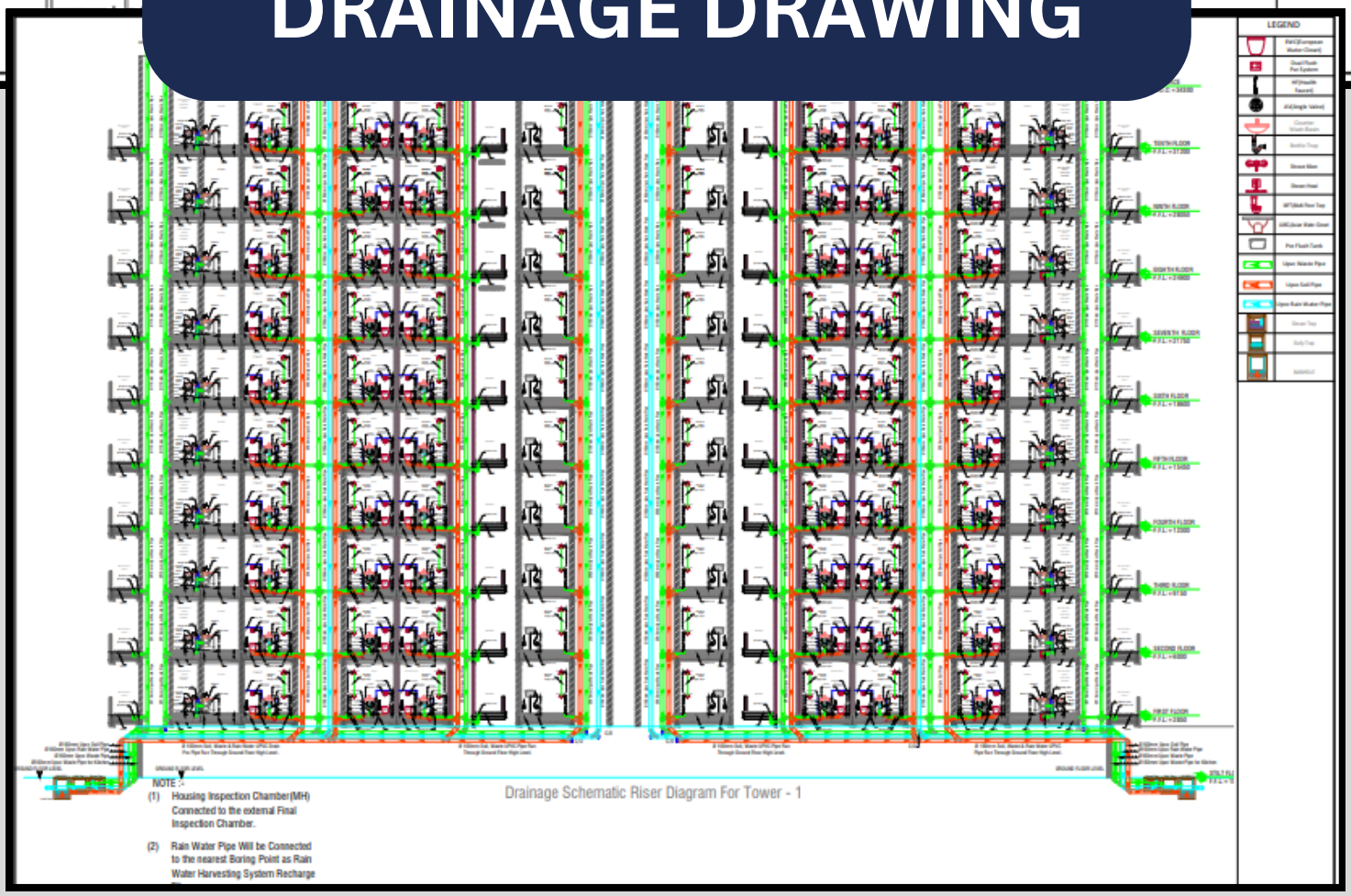
7.**Commissioning Services:**
- MEP systems commissioning
- Functional performance testing
- Verification of system operation and efficiency
- Ongoing monitoring and optimization

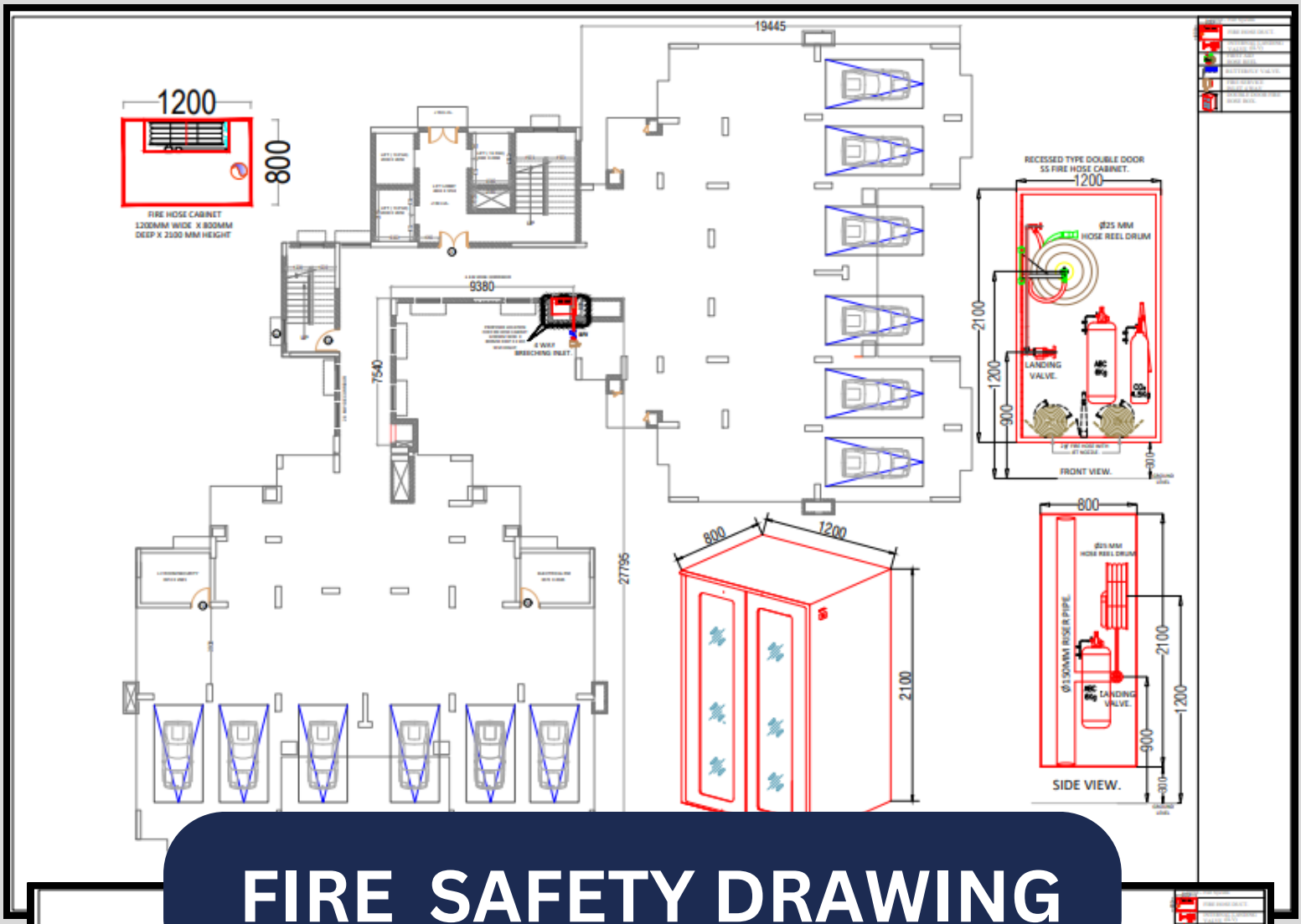
8.**Sustainability Consulting:**
- Green building design strategies
- Energy-efficient MEP systems design
- Renewable energy integration
- Sustainable water management

8.MEP Installation, Construction and Commissioning :
- MEP BOQ (Bill of Quantities)
- MEP BOM (Bill of Materials)
- Manage HVAC technicians, electricians, plumbers, pipefitters and skill/non skill manpower
- Testing and Commissioning

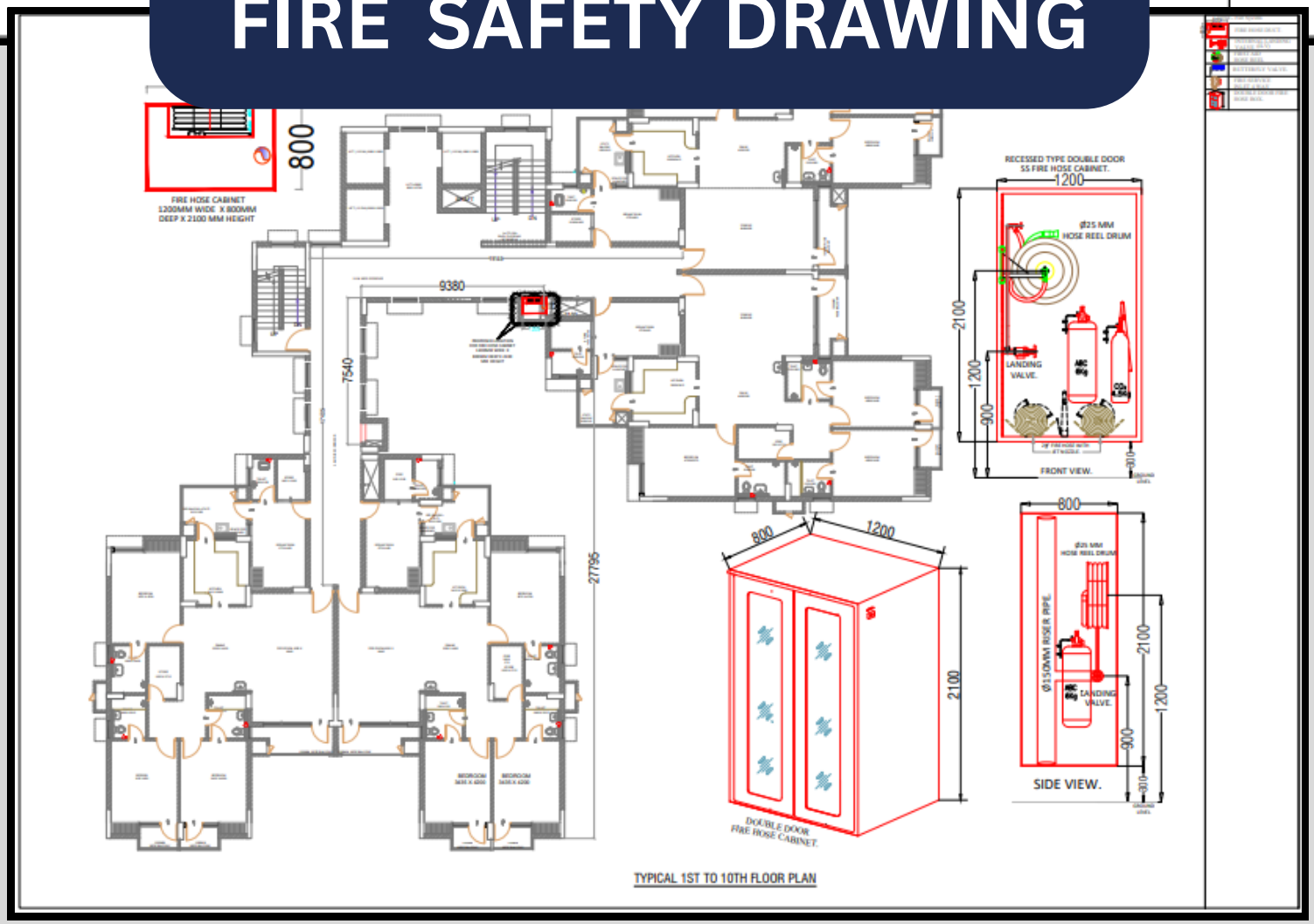


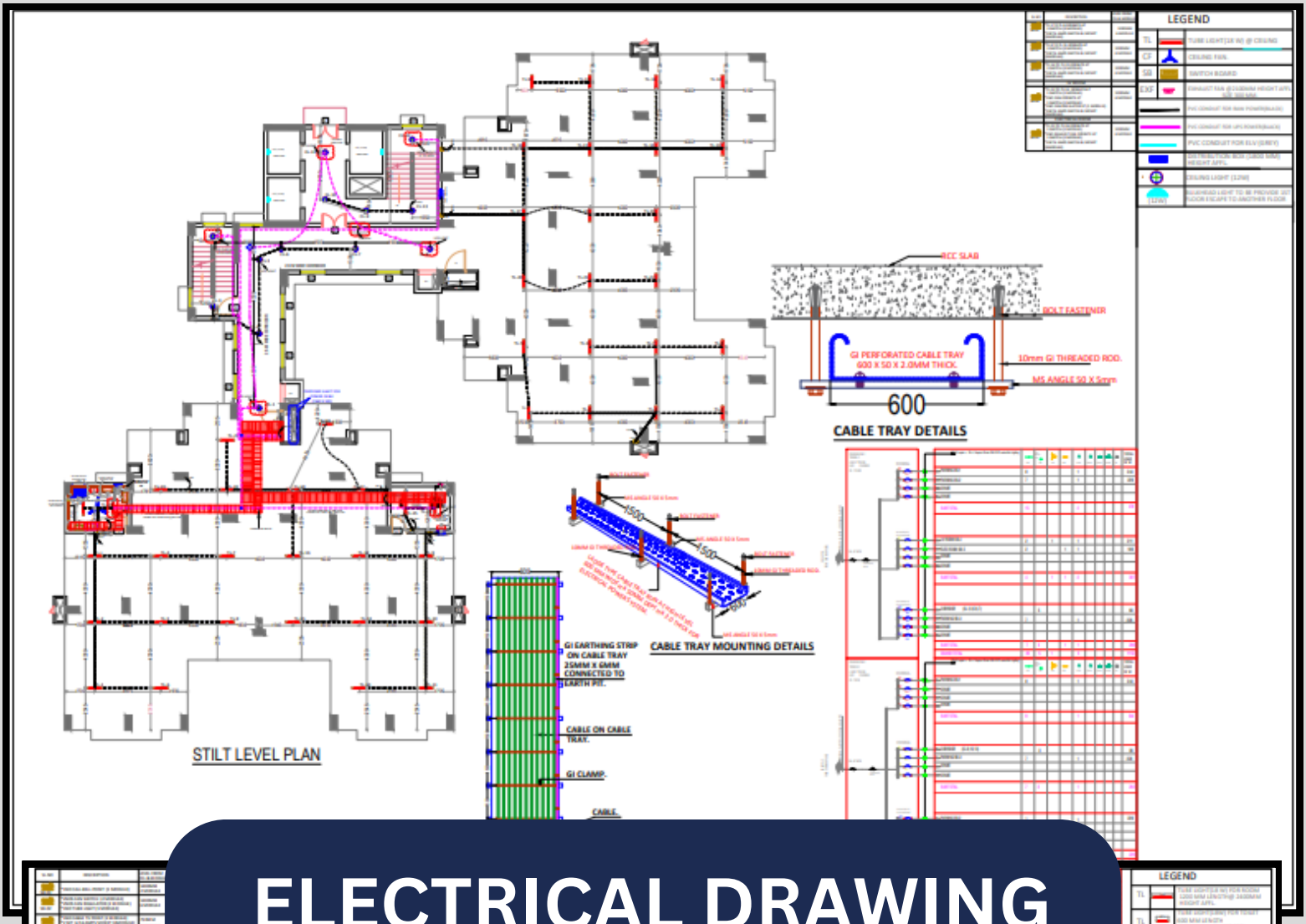
DRAINAGE DRAWING





FIRE SAFETY DRAWING





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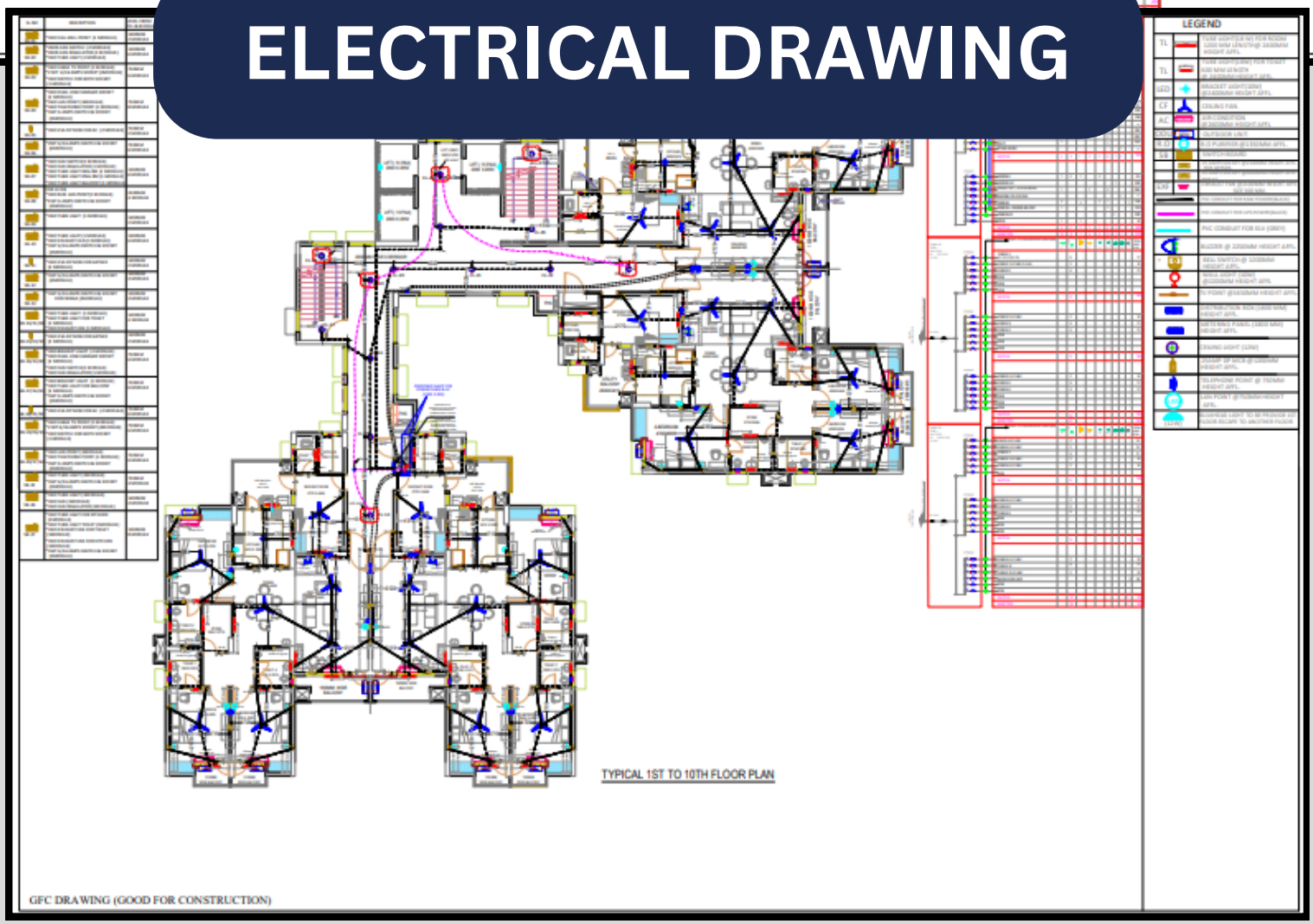

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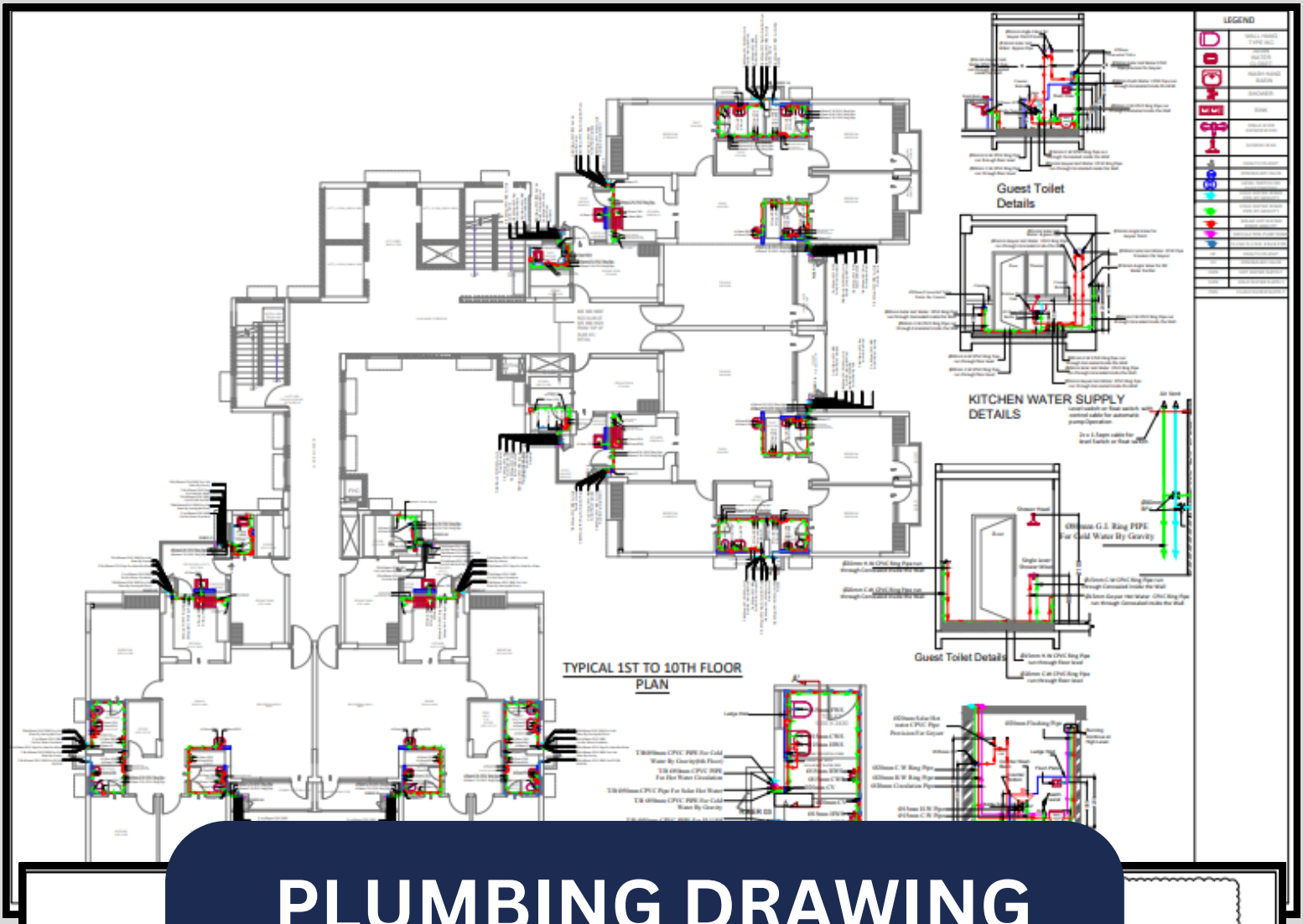
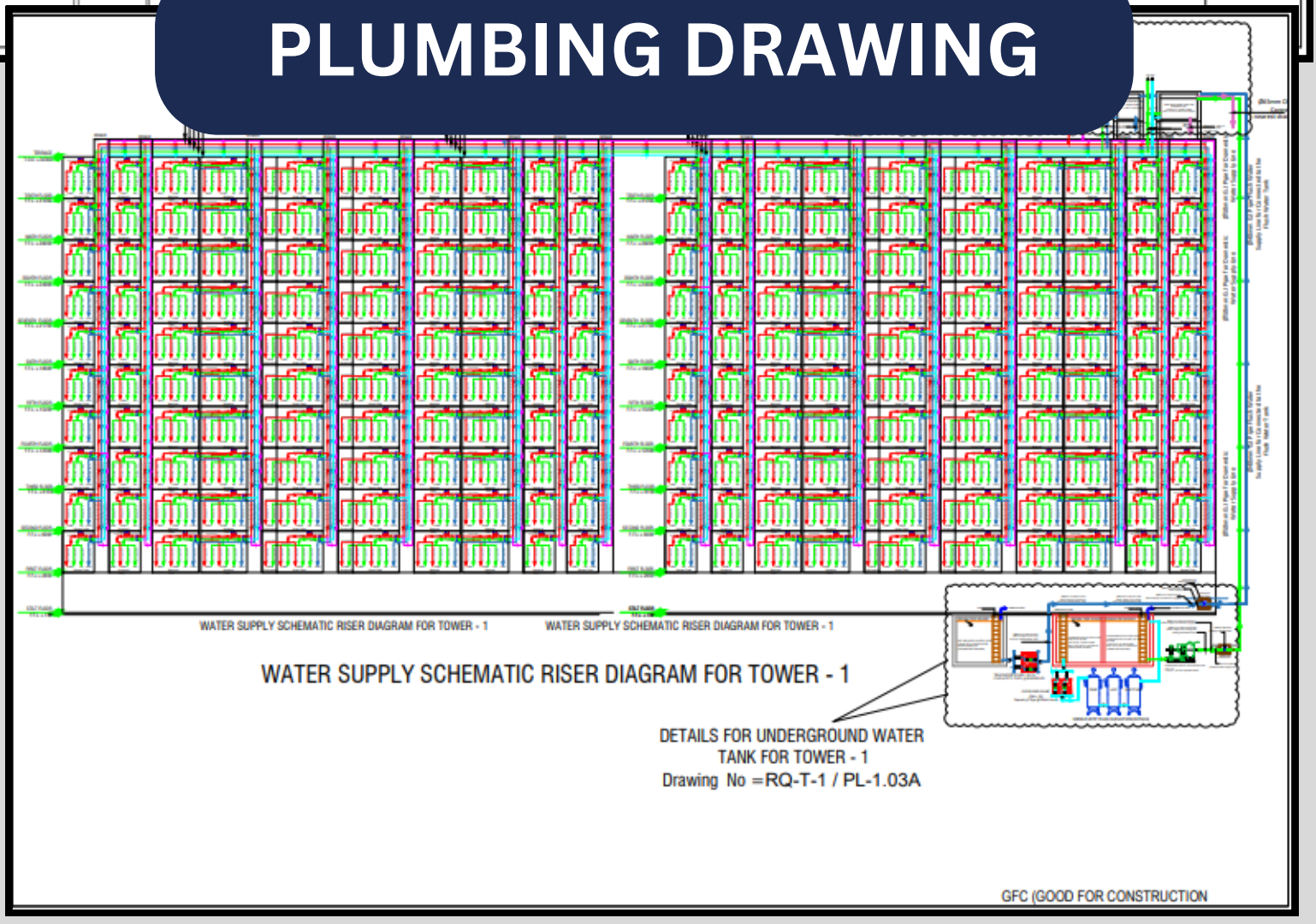
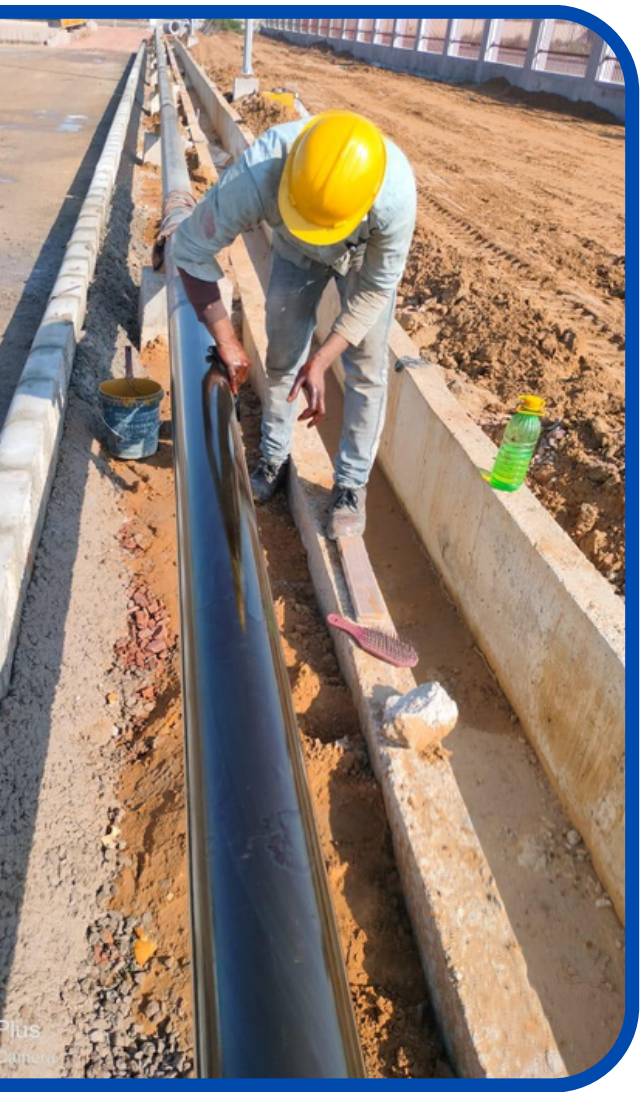




OUR PORTFOLIO











Techgenics Insight Engineering & Consulting Private Limited

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ENQUIRE NOW

OUR CLIENTS

OUR EXPERIENCE

10 + ENGINEERS
30+ SKILL MANPOWER

10+ CLIENTS

50+ PROJECTS

"Empower your engineering Design and construction teams with a proven single-source-of-truth execution model."

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