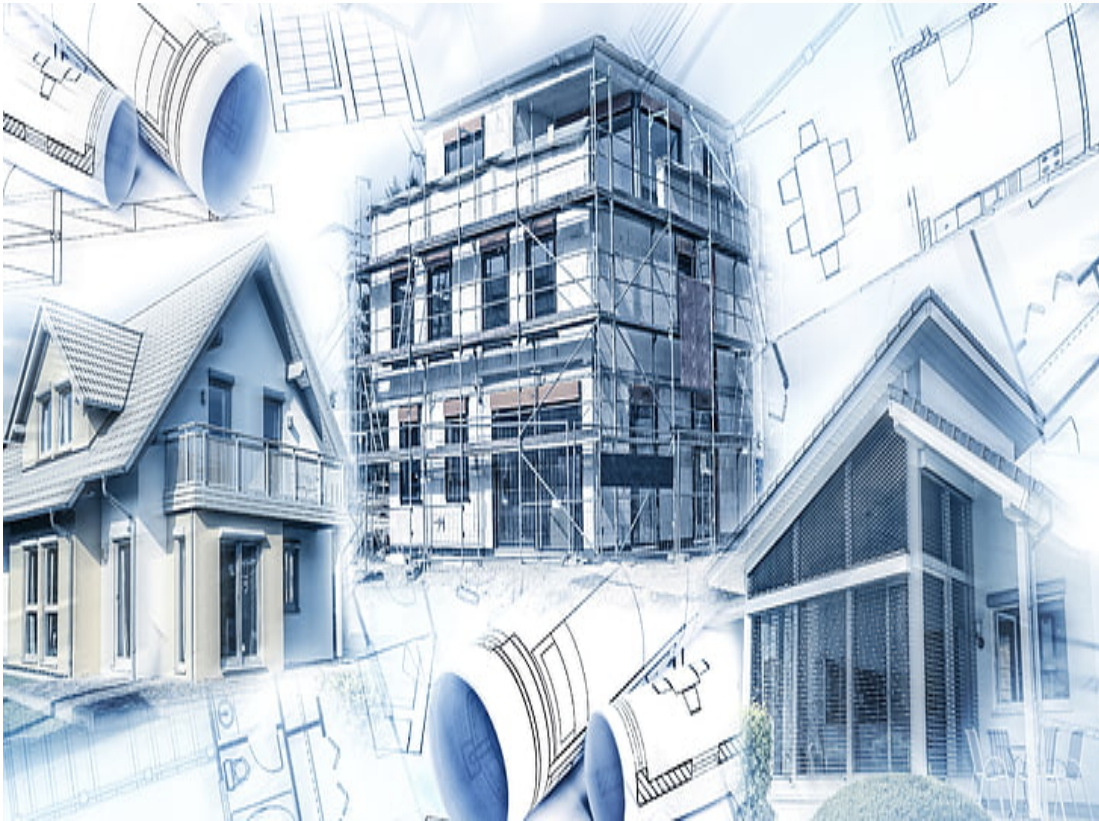




# Rigorous

MEP Consultant

## About Us



**“Rigorous”** is a young engineering MEP consultant firm specialized in providing innovative solutions and precise design for Mechanical, electrical, public health engineering, and Fire fighting systems.



## **“Tomorrow will be the creation of today.”**

We provide the best in unique solutions in a cost-effective way, adopting the new technologies to our work, which has helped clients, architects, and owners for the forthcoming generations.

## **“Accelerate to actuality”**

**‘Rigorous’** is the one who provides the BIM solution with accuracy in the modelling by providing Actual equipment and piping's, which makes actual coordination with all the services, including architectural and structural.

Executing the calculations adopting the latest technologies, i.e., Digitalisation in BIM using Dynamo and MagiCAD, etc.,

We Deliver the best services with in-depth knowledge of best engineering practices in line with international and local codes & standards in all the design stages from concept to project completion.

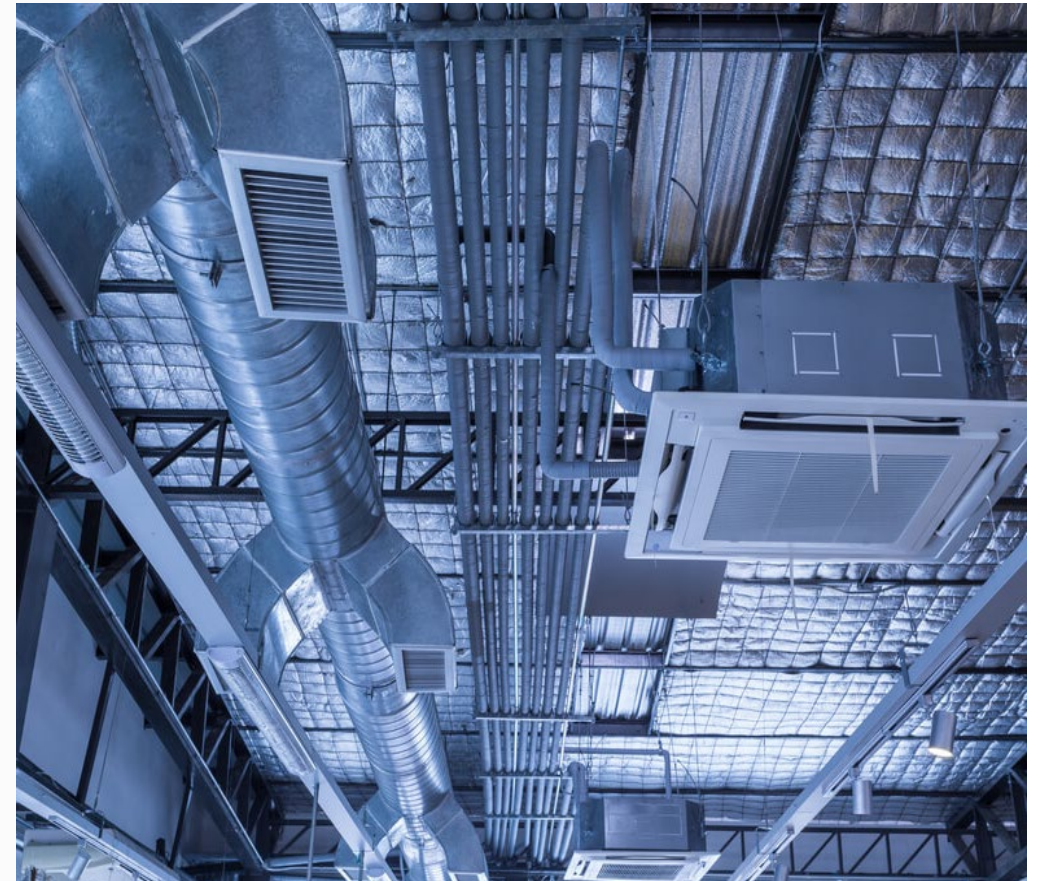
## Mission

To stand unique amongst the competitive engineers as the “Young & Enthusiastic Engineers” in the market, delivering the highest quality of design on time with innovative and cost-effective solutions.



# Mechanical

- Refrigeration and air conditioning - Water-cooled chiller system, air-cooled chiller system, VRF system, VAV & CAV air handling systems.
- Demand controlled ventilation system.
- Life Safety systems such as smoke extract and staircase and lift pressurization.
- Car park ventilation system.
- Data centre cooling solutions.
- Evaporative cooling system for different applications.
- Radiant cooling system for high sensible load cooling applications.



# Electrical

- Providing energy-efficient lighting design using simulations.
- HT/LT power distribution network.
- Selection of Capital equipment's.
- Low voltage system design – Telecommunication system & Network only passive components, Security and CCTV system, Public address system, Fire alarm, and fire detection and Access control system.
- Grounding and lightning protection design solutions.
- Energy Conservation
- Designing of all electrical services following the National/local codes and standards.



## Public Health

- Water supply system: cold water, cooled cold water, hot water systems.
- Drainage system: sewerage systems
- Stormwater drainage
- Gas system – LPG/ Natural gas system
- Solid Waste Management system



## Fire fighting



- Automatic sprinkler and standpipe or Hydrant system.
- Man handled extinguishers and automated extinguishing system.
- Specialized systems design such as, water spray, foam, pre-action and clean agent systems for auxiliary rooms.

## Building management system



BMS minimizes energy consumption and maximizes indoor comfort. Building management system ensures that the building remains green throughout its life.

- Automation, controls, and monitoring HVAC system
- Energy management system
- Water management and control
- Security management system

# BIM



BIM is an intelligent, 3D model-based process that helps AEC Industry to improve accuracy, reduce and resolve clashes and optimize building systems design. BIM brings you insight into your building, clarity of design, realization, operation and management & maintenance process. It includes,

- BIM implementation plan.
- BIM Modelling and developing.
- Engineering design support.
- Level of Detailing (LOD).
- BIM Coordination & Clash Report.
- BIM Documentation.
- Schedules.

# Peer Review



A peer review can improve the quality of designs, save time during construction, and prevent rework. A good review makes the life of the builder and contractor easy. Which includes MEP,

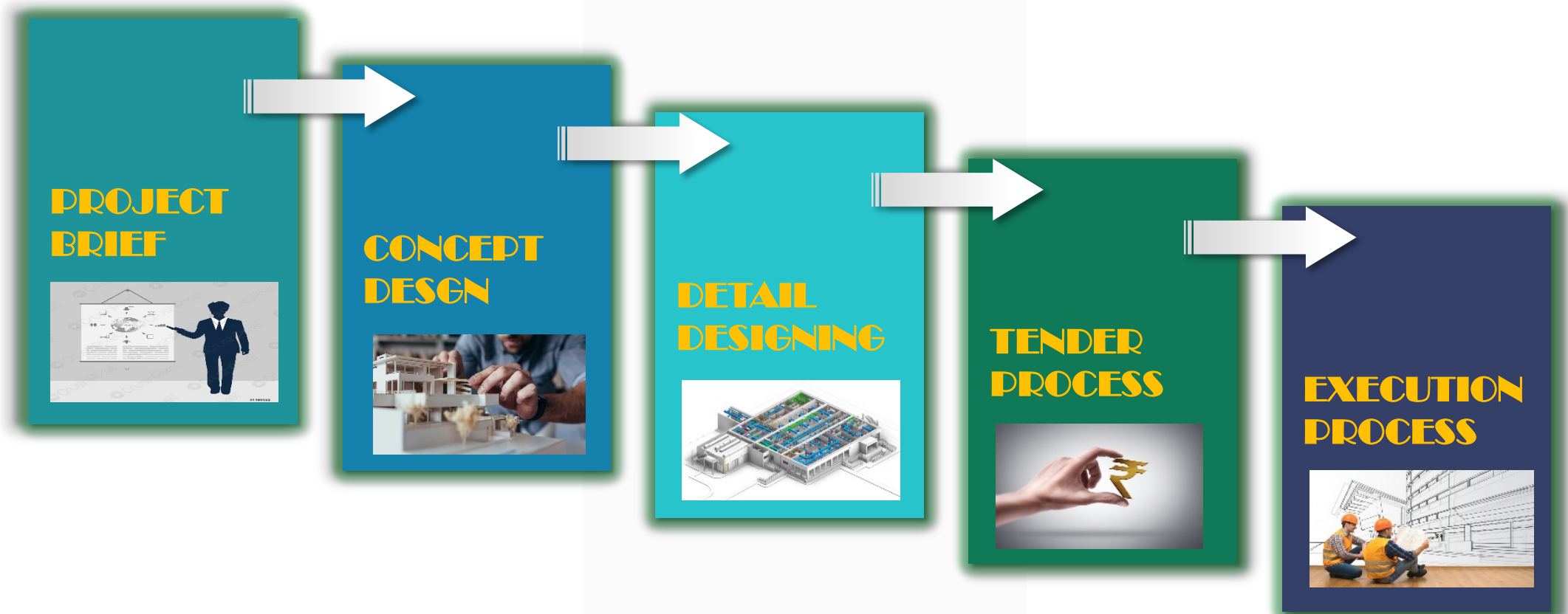
- Design quality.
- Code compliance.
- Quality of materials.
- Energy efficiency objective.
- Estimation and Costing.

# Specialization



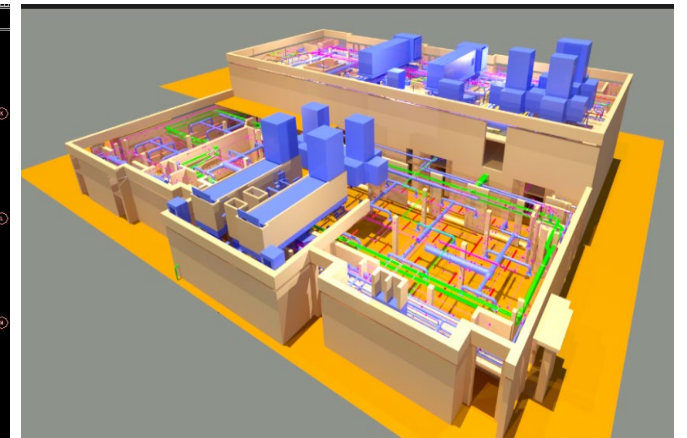
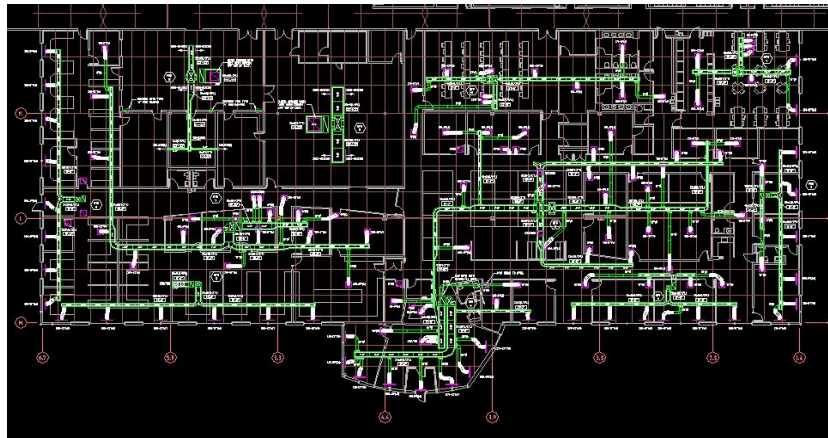
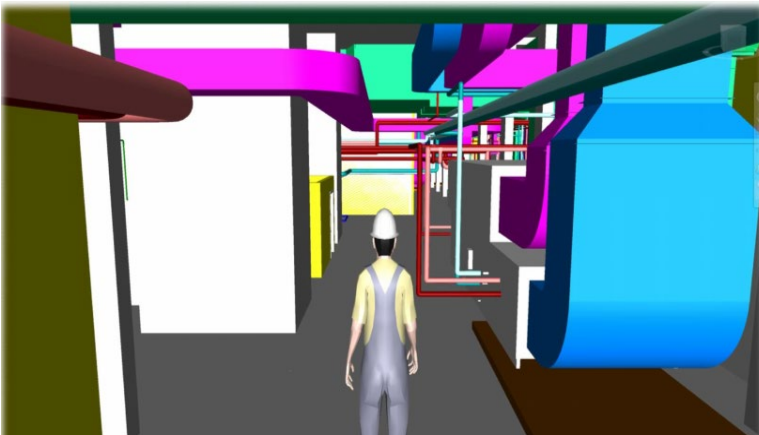
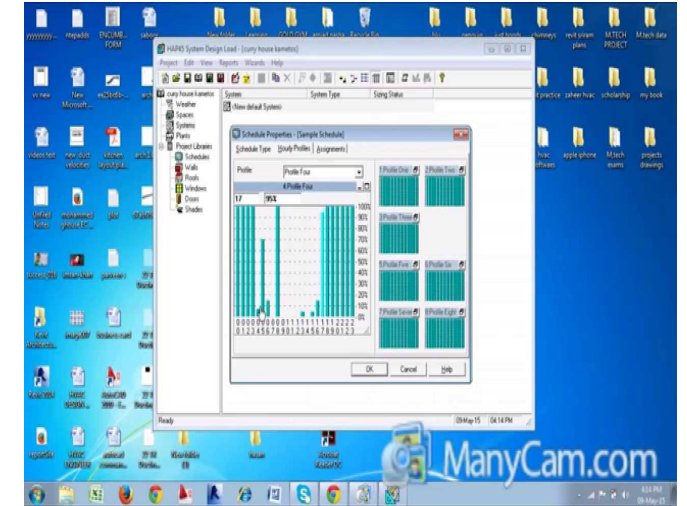
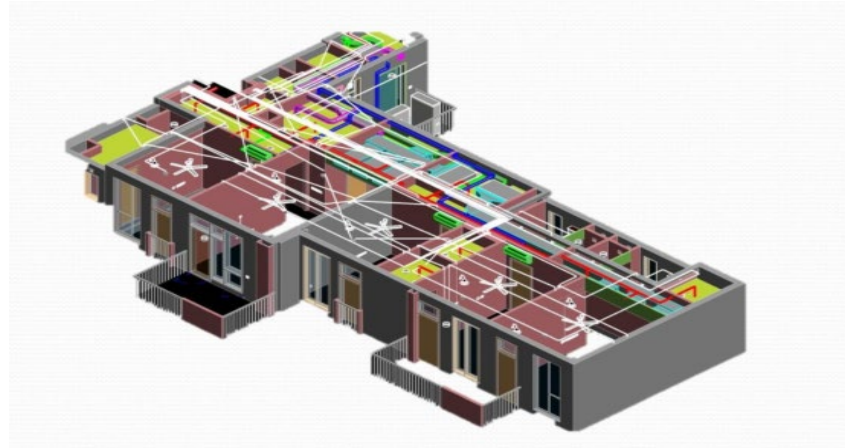
- Commercial
- High Rise Residential Buildings
- Industrial
- Retail
- Education facilities
- Data centers
- Villas

## Work Flow



## Our Output

- Revit MEP
- Walk through
- Navis Works
- Auto cad MEP
- Hourly Analysis Program (HAP)






# Thank You

Rigorous MEP Consultant, Bengaluru

 (+91) 9141577552

 [rigorousteam2021@gmail.com](mailto:rigorousteam2021@gmail.com)