



Specific

Design Consultants LLP.

Designing MEP System

OUR MEP DESIGN SERVICES

1

MEP DESIGN FROM CONCEPT LEVEL TO
DETAIL DESIGN & VALUE ENGINEERING

2

MEP BIM-3D MODELING IN REVIT &
2D DRAWINGS IN CAD

3

MEP ESTIMATION AND COSTING

4

MEP MATERIAL SUBMITTALS

INTRODUCTION

SPECIFIC DESIGN CONSULTANTS (SDC) is an MEP (Mechanical, Electrical, Plumbing & Fire Fighting) Engineering & Design Consultancy based in India. SDC is offering high-quality MEP Design, 3D Modeling (Revit-BIM), and 2D-CAD drafting services with a focus on sustainability and value engineering. Adhering to international standards, we also provide global outsourcing services.

HVAC SYSTEM DESIGN CALCULATION

SDC provides HVAC System Design to achieve precise thermal comfort aligned with end-user specifications & international standards. We use Elite/Carrier Heat Load calculation software, & other design programs to carry out design calculations.

- Heat Load Calculations
- Duct Sizing & Duct Routing
- External Static Pressure (ESP) Calculation
- Ventilation Calculations
- HVAC Equipment Selection
- Smoke Management System
- Chilled Water System Design
- Pipe Sizing & Pipe Routing
- Pump Head Calculations
- Hydraulic Equipment Selection



PLUMBING SYSTEM DESIGN

WATER SUPPLY SYSTEM

SDC excels in designing water supply system & drainage system involves Detail Fixture unit calculations, storage tank sizing, distribution network with pipes & pump head calculation.

- Water Supply Fixture Analysis
- Booster Pump Sizing
- Flushing Tank Sizing
- Domestic Water Storage Tank Sizing
- Hot Water Heater Sizing Calculation



DRAINAGE SYSTEM

- Drainage Fixture Unit Calculations
- Waste Water Treatment Calculations
- Gray Water Fixture Unit Calculations

- Sump Pit Design Calculation
- Storm Water Calculation
- Pump Head Calculation

FIRE PROTECTION SYSTEM DESIGN CALCULATIONS

SDC Fire protection system design calculations are executed to determine the requirements for effective fire protection systems in buildings or industrial facilities.



- Fire hydraulic calculation report
- Fire sprinkler report
- Fire Pipe Sizing
- FM 200 system
- Battery calculations for fire alarm & Fire detection System
- Fire alarm matrix-cause & effects
- Fire extinguisher system design
- Fire hydrants system design
- Building codes and standards

ELECTRICAL SYSTEM DESIGN CALCULATIONS

Involve Various Aspects Of Designing Electrical Systems For Buildings, Facilities, Or Infrastructure Projects. Here Are Some Key Calculations Typically Involved In Electrical System Design.

- Lighting Lux calculation
- Voltage drop calculation
- Cable & Cable tray sizing & routing
- Small power & earthing calculation
- Power for equipment calculation
- Power panel design & load schedules
- Breaker sizing, DBS & MDBS selection
- UPS & Battery Bank calculation & sizing
- Transformer & Generator sizing



DESIGN OF MEP CONTROL SYSTEM

SDC excels in BMS (Building Management System) design, offering tailored solutions for optimal efficiency in building operations



SDC's expertise encompasses smart control systems for lighting, HVAC, & security, providing a comprehensive approach to building automation.

SDC are expert in critical work areas as:

- BMS arrangement and philosophy
- Details of integration with MEP systems
- Sequence of operation
- Control cables schedule

VALUE ENGINEERING

Value engineering is a systematic approach used to optimize the design, installation, & operation of MEP systems in buildings while maximizing value & minimizing costs. It involves evaluating various aspects of the MEP systems to identify opportunities for improvement in efficiency, performance, sustainability, & cost-effectiveness without sacrificing quality or functionality.

PROJECT EXPERIENCE



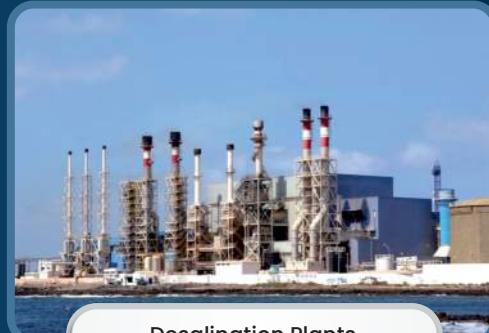
Oil & Gas Refinery Plants



Petrochemical Plants



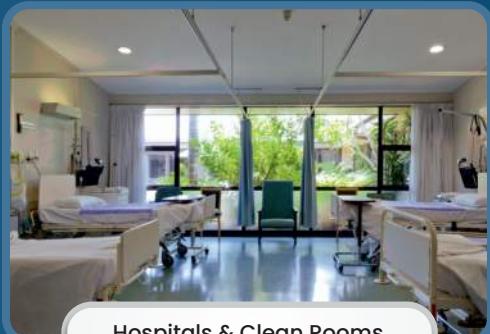
Power Plants



Desalination Plants



Substations (GIS) 380/230/33kV



Hospitals & Clean Rooms



High Rise Buildings & Towers



Residential Buildings



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