

# **PLUMBING & FIRE PROTECTION DESIGNIG & DRAFTING**

## **DESIGN ENGINEERING & DRAFTING**

### **Introduction on Plumbing System**

Methods of Plumbing system,  
Water Supply, Drainage Systems & Storm water system  
Standards used in Plumbing System

### **Designing of Water Supply System**

Availability of water  
Types of water supply system (Hot & Cold)  
Types of fixtures  
Types of fittings  
Types of valves

### **Cold Water Storage Tanks**

Types of Tanks & Material of Tanks  
Sizing of Cold Water Storage tanks

### **Hot water Generation**

Hot water Storage  
Types of Hot water System  
Commercial Hot water system  
Hot water pressurization systems

### **Designing of Water supply Pipes**

Pipes Material  
Cold water Pipe sizing  
Hot water Pipe Sizing

### **Rooting Layouts**

Cold water pipes Rooting  
Hot water Pipe Rooting

### **Pressurization system likes Pumps,**

Types of Pumps  
Designing of Pumps

### **Designing of Drainage system**

Types of Drainage (one & two Pipe) System  
Grey (Foul & Waste) water  
Types of Fixtures  
Low Level & high Level Drainage system

### **Drainage Pipes & Material**

Drainage Pipe Sizing  
Pipe Gradients

### **Waste water collection tanks**

Soak Away Pits

Septic Tanks

**Ventilation system for drainage networks**

Traps, interceptors and separators

**Drainage Layouts**

**Water treatment Plant**

**Sewerage Treatment Plant**

**Green Building System**

**Designing and installation of Storm Water System**

Storm water Pipe sizing

## **FIRE PROTECTION SYSTEM**

Designing of Fire Protection & engineering

Selection and installation of Extinguishers

Designing sprinkler Systems

Designing of Dry Riser & Wet Riser Systems

Pipe Sizing

Designing of Fire Pump Room

## **PLUMBING & FIRE PROTECTION DRAFTING SYSTEM (CAD)**

Symbols & Legends

Drafting Standards of Plumbing

Preparation of water supply Layouts (Design, Shop & as built Drawings)

Preparation of drainage Layouts (Design, Shop & as built Drawings)

Preparation of Single Line Schematic & Isometric drawings

## **PROJECT MANAGEMENT**

Estimation and tendering of projects

Procurement Process

Preparation of material submittals

Preparation of bill of quantities

Preparation of O&M manuals

Preparation of testing and commissioning reports

Preparation of installation approvals from consultants and authorities

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