



ZAKIYUDDIN AHMED BAAG

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PERSONAL DETAIL

Iqama: 2624160053
Passport: B7935397
Driving license: Yes
Marital status: Married
Nationality: India

LANGUAGES

English, Urdu & Hindi

ADDRESS KSA

Madinatul umaal
Al khobar, Eastern Province.
SAUDI ARABIA

CERTIFICATIONS

- Certified MEP Engineer – Taiba Engineering Consultant (MEP Institute)
- Fire Protection Systems Design Certification – Taiba Engineering Consultant
- AutoCAD Certified Professional – Prism Engineers
- ASNT Level-II (RT, UT, PT, MT)

MEP & Fire Protection Engineer

Mechanical Engineer With **13+ Years Of Experience** In **MEP And Fire Protection Systems** Including Design, Execution, Testing, Commissioning, And Maintenance Of **Industrial, Commercial, Residential, Pharmaceutical, Healthcare, And Oil & Gas Projects**. Strong Expertise in **NFPA, ASHRAE, IPC, Saudi Building Code, and Saudi Aramco Standards**. Proven Ability To Manage Full Project Lifecycle, Lead Teams, Control Costs, And Ensure Authority Compliance. Seeking a Challenging **MEP / Fire Protection Engineer** Role in Saudi Arabia.

EDUCATION

Bachelor of Engineering in Mechanical

Visvesvaraya Technology University, Belgaum, India

TOTAL WORK EXPERIENCE = 13 YEARS EXP

TECHNICAL COMPETENCIES

Fire Protection:

Sprinkler Systems, Hydrant & Hose Reel, Fire Pumps, Fire Alarm Systems, Clean Agent Systems (FM200 / NOVEC – basic)

HVAC:

Chillers, AHU, FCU, VRF Systems, Ducting, Ventilation & Exhaust Systems

Plumbing:

Water Supply, Drainage, RTR, STP, Pumps, Fixtures & Accessories

Codes & Standards:

Saudi Aramco, NFPA, ASHRAE, IPC, NBC, Saudi Building Code

Software:

AutoCAD, MS Excel, MS Word, MS Project, Basic Revit.

SUMMARY OF WORK EXPERIENCE

Organization: **PYRITE ENGINEERS PVT LTD**
Designation: Director / Senior MEP & Fire Protection Engineer
Period: From Feb 2021 to Dec 2025
Client: GRANULES INDIA LIMITED
Project: Pharmaceutical plant Hyderabad

- Managed end-to-end MEP and Fire Protection projects from design to handover.
- Designed and executed firefighting systems in compliance with NFPA standards.
- Supervised installation of HVAC systems, including chilled water piping, ducting, and equipment.
- Prepared BOQs, cost estimates, shop drawings, material submittals, and method statements.
- Coordinated with consultants, architects, contractors, and clients for smooth project execution.

CORE COMPETENCIES

- MEP Design & Project Execution
- Fire Fighting & Fire Alarm Systems
- HVAC Systems (Chilled Water, VRF, DX)
- Plumbing, Drainage & Water Supply
- Testing & Commissioning (T&C)
- BOQ Preparation & Cost Estimation
- Shop Drawings & Material Submittals
- Site Supervision & Manpower Management
- Authority Approvals & Inspections
- Project Planning & Coordination

COMPUTER LITERACY

- ❖ Microsoft Office Word
- ❖ Microsoft Office Excel
- ❖ Power Point
- ❖ Outlook
- ❖ Software Auto Cad
- ❖ Primavera 6

CODES & STANDARDS

- ❖ Saudi Aramco Engineering Standards (SAES, SAEP, SATIP, SAIC)
- ❖ National Fire Protection, Association (NFPA)
- ❖ Familiar with Uniform Plumbing Code (UPC)
- ❖ International Plumbing Code (IPC)
- ❖ American Society of Mechanical Engineer (ASME)

- Conducted testing, commissioning, and final inspections for MEP systems.
- Managed procurement, subcontractors, manpower, and site safety.
- Ensured projects were delivered on time, within budget, and as per quality standards.

Organization: **PRISM ENGINEERS**
Designation: Proprietor /Managing Engineer–MEP & Fire Protection
Period: From March 2017 to Jan 2021
Client: United Spirits Limited
Project: Beverages spirits and distillery plants
Bangalore, Hyderabad, Nasik, Aurangabad, Gulbarga

- Led MEP and Fire Protection projects from concept to commissioning
- Designed and executed hydrant, sprinkler, and fire alarm systems
- Supervised HVAC works including ducting and chilled water systems
- Prepared BOQs, shop drawings, material submittals, and method statements
- Coordinated with architects, consultants, contractors, and authorities
- Managed budgets, schedules, procurement, and manpower
- Successfully handled multiple projects simultaneously

Organization: **AL TURATH ENGINEERING CONSULTANT LLP**
Designation: MEP Engineer – Design and Implementation
Period: From Aug 2016 to Feb 2017
Client: DEWA, DUBAI Municipality
Project: Truck yard Project

- Designed HVAC and plumbing systems as per local authority requirements
- Prepared detailed calculations, drawings, and specifications
- Coordinated schedules with project management teams
- Supervised installation and ensured compliance with safety and quality standards
- Conducted site inspections and resolved technical issues

Organization: **BLUE COAST WLL**
Designation: Project Engineer
Period: From Aug 2014 to July 2015
Client: QATAR Petroleum
Project: Halul Island, Qatar

- Designed and executed HVAC systems for residential and commercial facilities
- Conducted feasibility studies and performance analysis
- Assisted in HVAC commissioning, testing, and balancing
- Coordinated with suppliers and subcontractors
- Provided on-site technical support and troubleshooting

Organization: **S. V AIR TECHNOLOGIES**
Designation: Mechanical Engineer
Period: From June 2012 to July 2014
Project: KIMS Hospital, Belgaum

- Designed and implemented HVAC systems for modular operation theaters
- Prepared mechanical drawings and specifications
- Coordinated with architects and engineers
- Conducted testing, commissioning, and validation of HVAC systems
- Ensured compliance with healthcare and cleanroom standards