

# IMRANUL HAQUE

HVAC Design Engineer & Cost Estimator



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**5 Years'** experience in the field of HVAC where I worked as a Design Engineer and done several projects such as **Bahar Hotel- 102 TR(ETA)**, **Glendale Academy - 110 TR (Air Cooled Chiller-Carrier)**, **Fortune Monarch Shopping Mall - 600 TR(Carrier)**, **Deccan Heritage Hotel - 92 HP VRF(Airstage)**. And also done with clients such as **DLF** and **TATA Joda** in Jamshedpur.

## Designing & System Skill



**Heat Load Calculation.**

  
Excellent

**Pipe Designing and Routing.**

  
Excellent

**Duct Designing**

  
Excellent

**Project scheduling & planning and forecasting etc.**

  
Excellent

**Costing and Estimation**

  
Excellent

Variable Refrigerant Flow (VRF)-System

  
Excellent

Direct Expansion (DX) System.

  
Excellent

Chilled Water System

  
Excellent

## Work History



2017-03 - 2021-06

### HVAC Design Engineer

Zoh-Air Engineering HVAC consultancy and project Management,  
Hyderabad

#### Responsibilities:

- Complete study of project specifications, requirements, **B.O.Q and drawings.**

- Project scheduling, planning, and budgeting expenses.
- Computing heat load calculation by using CARRIER HAP 4.6 V & ELITE software's according to ASHRAE 62.1 standards and making selection for "AHU's", "FCU's" & Chillers accordingly.
- Computing external static pressure (E.S.P) calculations and pump head calculations.
- Computing quantity take-off for ducting, CHW piping, grilles, dampers etc.
- Medical air, gas, vacuum sizing of pipe and selection of material as per UPC2009.
- HVAC system for Negative Pressure Rooms / Positive Pressure Room, isolation rooms, VAV system, Scrubber system (Operation Theater's, Sterilization Rooms, Laundries and Laboratories) following ASHRAE, H.F.D.P codes and in compliance with CBAHI.
- Submitting material and equipment for consultant review and approval.
- Preparing Variation claims for additional scope.
- Analyzing and preparing scope of work document.
- Risk assessment with the immediate manager.
- Executing the works as per Approved for construction drawings, specifications & monitor progress against schedule.
- Preparing weekly reports and monthly progress for projects
- Reporting to Project Manager regarding progress of work on site.
- Constant on-site field inspection to ensure quality of works delivered.
- Preparing Method Statement for Mechanical Works.
- Preparing "RFI's" (Request for Inspection).
- Implement quality, safety and housekeeping standards.
- Carry out all relevant testing procedures before commissioning and assisting the independent testing and commissioning contractor.
- Conducting Smoke Test or air leakage tests, Conducting Air Balancing and Water Balancing Test.
- Prepare preventive maintenance procedures / O & M manuals for the project.
- Prepare As-built drawings in co-ordination with draftsmen.

2016-03 - 2017-10

## **HVAC Design Engineer**

*wollaque ventilation & conditioning (p) ltd., NEW DELHI*

### **Responsibilities:**

- Designing HVAC Systems.
- Calculating Heating and Cooling Needs.
- Interpret and Draft Plans.

- Calculate Ventilation Requirements.
- Determine Budget Costs.
- Coordinate with Others.
- Adhere to All Building Codes.
- Installation.

## Education



2013-08 - 2015-11	<b>M.Tech: Machine Design</b> <i>ALHABEEB COLLEGE of ENG. AND TECH.(JNTU-Hyderabad) - Hyderabad</i>
2009-09 - 2013-11	<b>B.Tech: Mechanical Engineering</b> <i>ALHABEEB COLLEGE of ENG. AND TECH.(JNTU-Hyderabad) - HYDERABAD</i>
2007-04 - 2009-05	<b>Higher Secondary School: Physics, Chemistry, Mathematics, Hindi, English</b> <i>Karpoori Thakur Inter College. - Motihari</i>
2006-03 - 2007-05	<b>Senior Secondary School: Science Education</b> <i>Mangal Seminary Inter College - Motihari</i>

## Technical & Software Skills.



<b>Pipe Designing and routing</b> (Supply and return)	■ ■ ■ ■ ■ Excellent
<b>Duct Designing and routing</b> (Supply and Return)	■ ■ ■ ■ ■ Excellent
<b>AutoCad-2D, 3D</b>	■ ■ ■ ■ ■ Excellent
<b>Revit</b>	■ ■ ■ ■ ■ Excellent
<b>Inventor</b>	■ ■ ■ ■ ■ Excellent
<b>MEP</b>	■ ■ ■ ■ ■ Excellent
E-20 Excel Sheet	■ ■ ■ ■ ■ Excellent
McQuay - Duct and Pipe Sizer	■ ■ ■ ■ ■ Excellent
DuctU - Sizer	■ ■ ■ ■ ■ Excellent
HAP V4.6	■ ■ ■ ■ ■ Excellent
ASHRAE, ASTM, SMACNA	■ ■ ■ ■ ■ Excellent
HEALTH TECHNICAL, MEMORANDUM (HTM),	■ ■ ■ ■ ■



## Online Instructor

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### **Thinking Storm May 2018 - Sep 2020**

- Load calculation - Manually and Using Software
- Designing using Equal Friction Method and selecting Material as per SMACNA
- Duct & Pipe Design - Manually and Using Software
- Required CFM and System Selection.
- Outdoor and Indoor Selection.
- Maintenance etc.



## IT Skill

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HTML

CSS

JAVA Script