

ATUL MATHUR

HVAC Engineer

Summary

- HVAC engineer with over 15 years of experience in HVAC Design, Commissioning and Qualification (C&Q)
- Proven experience in pharmaceutical and biotech projects

Capabilities

HVAC design

- Concept design: Cooling load calculations, concept P&IDs
- Detailed design: Review of layout drawings/model, equipment selection (AHU, fan, coil, dehumidifier, etc.)
- Documentation: Technical and contractual specifications, data sheets, bid evaluation & recommendation, etc.

Testing, Commissioning and Qualification (C&Q)

- Planning and execution of testing and commissioning activities
- Design review and qualification (DQ)
- Installation and Operational Qualification (IQ & OQ)
- Documentation: Preparation, review and approval of commissioning and qualification protocols

Education

- Master's degree in mechanical engineering from IIT, Kanpur, India (1988-1990)
- Bachelor's degree in mechanical engineering from Malaviya National Institute of Technology, Jaipur, India (1981-1986)

Key projects

Biotech / Pharmaceutical

- Lilly Suzhou East Lake Insulin Filling Project, China: HVAC Commissioning & Qualification documentation and testing (Sep'15-Dec'16)
- GSK Vaccines / No Deviation Pte Ltd: User Requirements, design calculations, concept design and technical specifications for a cold room project (May-Jun'15)
- Novartis, Singapore (NSPM): Low RH feasibility study (May-July'13); investigation, upgrade of flexible ducts, rebalancing of qualified HVAC systems, review of alarm management system, revision of calculation sheets (July'12-Jan'13)
- GSK-NIBT JV Flu Vaccine Revamping Project: HVAC testing, commissioning and handover (Jan-Apr'11)
- GSK Biologicals, S'pore: HVAC design, commissioning, qualification support (DQ, IQ & OQ) and handover (Feb'07 – Mar'10)
- Novartis, S'pore: HVAC Design (2006)
- Pfizer, S'pore: Investigation (2002)

Laboratories

- AMRI (with Jacobs, Singapore): HVAC Design
- Defence Medical Research Institute (DMRI), Singapore: HVAC design
- Eastman Kodak, Singapore: HVAC design

Semiconductor / cleanroom

- Gemplus Technologies (class 1,000): Commissioning
- Agilent technologies/HP (class 1,000): HVAC design

Data centres

- Nokia, Microsoft, Sybase, Lucent technologies: HVAC design and project management

Office / commercial / industrial buildings / hotels

- Hitachi Tower, Caltex House and SIA Building, Alexandra Technopark, Chai Chee Industrial Park: HVAC design and project management
- The Fullerton Hotel, Singapore: HVAC design
- Marina Square, Singapore: Feasibility study

Publications

1. Simpson, Mark and Mathur, Atul. (Jan-Mar. 2002). Air-conditioning design for data processing centres. Air-conditioning and Refrigeration Journal. 34-43
2. Mathur, Atul. (April-June 2002). A systematic approach to reviewing the selection of chilled water fan coil units. Air-conditioning and Refrigeration Journal. 67-68
3. Sze, George, Lek, Siang Hwa and Mathur, Atul. (July-Sept. 2002). Hospital air-conditioning HVAC design. Air-conditioning and Refrigeration Journal. 26-33
4. Stone, Richard and Mathur, Atul. (Oct-Dec. 2002). Investigation of chilled water pipe condensation. Air-conditioning and Refrigeration Journal. 55-62
5. Mathur, Atul. (Jan.-Mar. 2003). Project Management-The Pitfalls. Air-conditioning and Refrigeration Journal. 76-81
6. Mathur, Atul. (July.-Sept. 2004). Superior service will sharpen your competitive edge. Air-conditioning and Refrigeration Journal. 19-24

Workshops / training / teaching

1. Problem Solving in HVAC Commissioning: Half-day workshop for Indian Society of Heating Refrigeration and Air-conditioning Engineers (ISHRAE) at Mumbai, India (Mar'13)
1. Introduction to ACMV in Pharmaceutical Facilities: Workshop organized by the International Society for Pharmaceutical Engineering (ISPE) at Singapore (July'12)
2. Can Patients Boost the Quality and Productivity of a Pharmaceutical Plant? (ISPE Singapore Conference, July 2013)

Contact

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