



Avik Bhattacharjee, AMIMechE

HVAC Sr. Engineering Manager

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Scaling new heights of success with hard work & dedication and leaving a mark of excellence on each step; targeting for senior level opportunities in the areas of HVAC System Design and Engineering with an organization of high repute

Executive Profile

- ▶ **A result-oriented professional with over 15 years of experience in HVAC System Design and Engineering, Engineering Management, Coordination and People Management in Power Plant & Steel Plant industry**
- ▶ **An Engineering Management Expert** with a merit of leading engineering of large magnitude independently with competent cross-functional skills, ensuring on-time deliverables within preset cost parameters
- ▶ **Expertise in communicating directly with customers** to understand project requirements, project schedule, design specifications and operational environments in order to evaluate cost, feasibility & implementation of new HVAC equipment and system
- ▶ Expert in identifying, analyzing and solving problems faced in HVAC systems and equipment design
- ▶ Experienced in swiftly ramping up **bidding work** within stipulated time frame
- ▶ As **Cluster Manager (Team Manager)** leading a team of **six (6) Engineers** who are working in different packages / equipment for various projects
- ▶ **Delivered technical assistance support and training** in order to increase the skills and capabilities of team members
- ▶ As **Quality Management System (QMS) representative** of the department, co-ordinating with team members towards **quality management, process enhancements, project cost saving, value engineering initiatives and department KPI / objective / goal achievement**
- ▶ Worked in **Mitsubishi Heavy Industries (MHI) Japan office for 2 years as HVAC Lead Engineer** and got hands-on experience of Japanese work ethics, discipline, culture and efficiency
- ▶ Currently an **Associate Member of IMechE, UK (AMIMechE)** and working towards Chartered membership (IEng / CEng) of Engineering Council, UK.

Core Competencies

HVAC System Design & Engineering

Engineering Management

Engineering Coordination

Vendor Management

Cost Estimation

Value Engineering Initiatives

Process Enhancements

Technical Assistance / Training

Team Management

Education

- ▶ **Bachelor of Engineering (Mechanical Engineering)** - 2005 - First Class with distinction (71% marks) - Visveswaraiiah Technological University, Belgaum, Karnataka, India (Sir M Visvesvaraya Institute of Technology, Bangalore)
- ▶ **Higher Secondary (10+2)** - 77.4% marks - Ballygunge Government High School, Kolkata, India
- ▶ **Secondary (10th)** - 81% marks - Ballygunge Government High School, Kolkata, India

Career Timeline



Dec'05-Jan'08



Feb'08-Apr'08



May'08-Jun'08



Jul'08-Aug'11



Aug'11-Present

Professional Experience

Mitsubishi Power India Private Limited, Bengaluru, Karnataka

Aug'11-Present

Growth Path:

HVAC Lead Engineer	Aug'11-Mar'14
HVAC Dy. Engineering Manager	Apr'14-Mar'17
HVAC Engineering Manager	Apr'17- Mar'20
HVAC Sr. Engineering Manager	Apr'20-Present

Role:

- ▶ Managing **design & engineering work** related to **HVAC and Air Compressor package** in **Coal Fired power plant, Combined Cycle Power Plant Projects and Flue Gas Desulphurization (FGD) Projects in India (NTPC Mouda FGD, Rihand FGD and Farakka FGD) and International locations (Thailand GNS, Thailand GUT and Thailand Khanom Combined Cycle Power Plant projects and Indonesia Central Java Coal Fired Power Plant project)**
- ▶ Checking design compliance with project specifications and codes & standards requirements (such as ASHRAE / SMACNA / IS / International standards)
- ▶ Preparing Basic Engineering drawings like HVAC Heat Load & Equipment sizing calculation, Air Compressor sizing calculation, PFD, P&ID, Operation & Control Philosophy, Equipment Layout, Civil Input Drawing, Electrical Load List, Utility List etc.
- ▶ Preparing purchase specification, reviewing vendor offer, arranging technical discussion with vendors, preparing technical evaluation report, comparing vendor's prices and finalizing package ordering
- ▶ Detailed Engineering work comprising of reviewing vendor drawings, submitting drawings to owner and giving final approval and manufacturing clearance to vendor
- ▶ Following up with Vendor for timely submission of drawings & documents, reviewing progress of engineering, procurement, manufacturing & delivery of equipment to site; ensuring strict compliance of technical specification and negotiating additional cost claim
- ▶ Coordinating with Owner for getting timely approval of drawings and negotiating any additional technical requirement / scope outside contractual specification
- ▶ Inter-department coordination for getting timely inputs, interference checking and monitoring any input changes post package ordering
- ▶ Coordinating with Site Engineers and site visit for supporting and providing solution to engineering related site issues
- ▶ Coordinating with project management and procurement team for solving commercial issues
- ▶ Monitoring and controlling engineering and delivery schedule with respect to cost, time overruns and quality compliance to ensure satisfactory execution of projects
- ▶ Proposing value engineering to reduce cost without affecting quality and performance
- ▶ Identifying issues, analyzing information and providing solutions to problems
- ▶ Exceeding goals through effective task prioritization and great work ethic
- ▶ Tracking work progress with respect to work schedule & managing accordingly to achieve the milestones
- ▶ Ensuring project engineering integration & design, scope, time, cost, quality, communication, risk, procurement; engaged in design reviews & coordination and project monitoring of HVAC & Air Compressor package from concept to commissioning
- ▶ Supporting bidding work including preparation of technical proposal, deviation-clarification list and budgetary cost estimation
- ▶ Leading a team of six (6) Engineers as Cluster Manager (Team Manager) and managing their KPI goal setting, performance review, monitoring work load distribution, man hours utilization, time sheet approval, training and mentoring.
- ▶ Co-ordinating with team members towards quality management, process enhancements, project cost saving, value engineering initiatives and department KPI / objective / goal achievement through monthly KPI reporting, quarterly goal review, project risk assesment, half yearly internal audits, annual external audit, lesson learnt exercise, training etc.

Previous Experience

Larsen & Toubro Ltd., Kolkata

Jul'08-Aug'11

Asst. Engineering Manager & Sr. Design Engineer

Role:

- ▶ Design & engineering work related to **HVAC and Air Compressor package** in **Steel Plant Projects in India (IISCO Burnpur Sinter Plant, Tata Pellet Plant, Bhushan Sinter Plant)**
- ▶ Preparing Basic Engineering drawings like HVAC Heat Load & Equipment sizing calculation, Air receiver sizing calculation, PFD, P&ID, Equipment & Duct Layout, Civil Input Drawing, Electrical Load List, Utility List etc.
- ▶ Preparing purchase specification, reviewing vendor offer, arranging technical discussion with vendors, giving technical clearance and finalizing package ordering
- ▶ Detailed Engineering work comprising of reviewing vendor drawings, submitting drawings to owner and giving final approval and manufacturing clearance to vendor
- ▶ Vendor follow-up, inter-department coordination, interaction with Owner & Consultant and site support
- ▶ Supporting bidding work including preparation of technical proposal, deviation-clarification list and BOQ estimation

Voltas Ltd., Kolkata
Sr. Sales Engineer – MEP

May'08-Jun'08

Flakt India Ltd., Kolkata
HVAC Marketing Engineer

Feb'08-Apr'08

ABB Limited, Kolkata
HVAC Marketing Engineer and Trainee Engineer

Dec'05-Jan'08

Role:

- › Cost Estimation and Bidding work for HVAC package in Power Plant, Oil & Gas and Building projects in India (NTPC, ONGC, BHEL, LANCO etc.)
- › Preparation of HVAC Heat Load & Equipment sizing calculation, BOQ estimation, Cost estimation, risk evaluation
- › Preparation of Techno-commercial proposal, deviation-clarification list for bid submission
- › Meeting with client for presentation, final price negotiation and contract signing

Skills

- › Auto CAD, MS-Office
- › Communication, Interpersonal skill, team player

Personal Details

Date of Birth: 11-May-1979

Languages Known: English, Hindi and Bengali

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