

Job Description- Design Engineer

Location- Head Office, Gurugram

Exp required-6 + years

Job Summary

The Design Engineer will be responsible for the design, engineering, and development of cooling towers and related components. The role involves preparing design calculations, GA drawings, fabrication drawings, bill of materials (BOM), and coordinating with production, projects, procurement, and sales teams to ensure accurate and timely execution of customer requirements.

Desired Candidate Profile

Skills Required

- 6 + years of experience in design and engineering of cooling towers, HVAC equipment, process equipment, FRP products, or industrial fabrication.
- Experience in manufacturing industry preferred.
- Proficiency in AutoCAD, SolidWorks, Inventor, or similar design software.
- Knowledge of cooling tower components, structures, FRP systems, and fabrication processes.
- Understanding of engineering calculations, material selection, and manufacturing practices.
- Ability to read and interpret technical specifications and drawings.
- Strong analytical and problem-solving skills.
- Good communication and cross-functional coordination abilities
- B.E./B.Tech or Diploma in Mechanical Engineering.

Key Responsibilities

Design & Engineering

- Prepare detailed designs for cooling towers based on customer specifications and project requirements.
- Develop General Arrangement (GA) drawings, fabrication drawings, assembly drawings, and manufacturing details.
- Perform design calculations related to structural loads, water distribution systems, fan selection, and cooling tower performance.
- Design FRP, RCC, wooden, and steel cooling tower components as per project requirements.
- Ensure compliance with applicable industry standards and company design practices.

Drafting & Documentation

- Prepare and review 2D and 3D drawings using AutoCAD, SolidWorks, or similar software.
- Generate Bill of Materials (BOM) and material specifications.
- Maintain design records, revision control, and engineering documentation.
- Ensure timely release of approved drawings for manufacturing.

Production Support

- Coordinate with production teams to clarify design details and resolve manufacturing issues.
- Provide technical support during fabrication, assembly, and testing activities.
- Review production feedback and implement design improvements.
- Support troubleshooting of manufacturing and installation challenges.

Project Coordination

- Coordinate with Sales, Projects, Procurement, and Quality departments for smooth project execution.
- Participate in project kick-off meetings and design review discussions.
- Ensure engineering deliverables are completed as per project timelines.
- Support site teams with technical clarifications whenever required.

Product Development & Improvement

- Participate in new product development and value engineering initiatives.
- Identify opportunities for design optimization, cost reduction, and performance enhancement.
- Standardize components and design practices to improve manufacturing efficiency.
- Support R&D activities related to cooling tower technologies.

Quality & Compliance

- Ensure designs comply with customer specifications, industry standards, and quality requirements.
- Conduct design reviews and verification checks.
- Support ISO documentation and quality audits.
- Minimize design errors and engineering deviations.

Technical Support

- Assist the sales team with technical proposals and customer presentations.
- Review RFQs, technical specifications, and tender documents.
- Provide engineering inputs during techno-commercial discussions.
- Support commissioning and troubleshooting activities when necessary.