

Sandeep Kumar

PROFESSIONAL EXPERIENCE

Mechanical Engineer

Vardhman Yarns & Threads Ltd. U-II, Ludhiana (Dec.2022 - Present)

- Utility Engineer managing the operations of critical infrastructures including **Boilers, D.M Plant, ETP, Air compressor, Cooling Towers, Water Softening Plant H-Plants, Diesel Generators, Water distribution system.**
- **Conducting preventive maintenance** and troubleshooting for equipment to minimize down time.
- **Analysis and Testing of ETP parameters.**
- Ensure compliance with safety standards and for optimized plant performance through effective utility management.
- **Managing manpower and maintaining inventory** for department ensuring availability of critical spares and material.
- Responsible for **Erection and Commissioning** of new machinery in plant leading erection activities and dealing with contractor and my team.
- Keeping Records of documents regarding Internal and External **Audits, PPCB and CPCB** related documents, maintenance records and inventory records.

EDUCATION

B.tech in Mechanical Engineering, (PTU)

PCTE Institute of Engineering & Technology, Ludhiana (Nov. 2020 - April 2023)

Diploma in Automobile Engineering (PSBTE)

Ludhiana Polytechnic College, Ludhiana (July 2018 - Nov 2020)

Intermediate (Non-Medical) (PSEB)

Govt. Sen. Sec. School Jandiali, Ludhiana (March 2018)

INTERNSHIPS

● Six months Internship at Vardhman Yarns & Threads Ltd.(Dec22-June 23)

Completed **six months of practical Internship** in Engineering department in Utility section and gained experience in **managing the operation and maintenance** of machinery, mechanical equipment and critical infrastructures including **Boilers, D.M Plant, ETP, Air compressor, Water Softening Plant, Cooling Towers, H-Plants, Diesel Generators, Water distribution system.**

● Completed 45 days Internship at Emson Gears Ltd. (August 2021)

● CNC Lathe Turning setup and operation (Nov. 2019)

Completed 3 months of practical training in LATHE, CNC Turning setup and operation and compatible with measuring instruments like Vernier Caliper, Micrometer, Height gauge, etc.

JOB RELATED PROJECTS

Erection and Commissioning.

- Completed the erection and commissioning of given projects
 1. **Boiler water tube replacement** and furnace re-making work.
 2. Setting up of **D.M Water Plant.**
 3. Installation of **Steam Operated paddle Sludge Dryer. (In ETP Dept.)**
 4. **Fire Hydrant** header and line fabrication work.

Monitoring of water distribution system and finding wastage.

- Reduced **20-25% of daily water consumption** by carrying out monitoring of water system and by **locating several faults, wrong practices, leakages** and correcting them.

ACADEMIC PROJECTS

“Designing & Fabrication of E-Bike”

- Led a team of Four members as a Project Leader in successfully completing the project- **“Designing & Fabrication of an Electrical Bike”.**
- Designed and fabricated an Electric Bike with a capacity of 45Km/h, and successfully accomplished the fabrication work (Turning, Welding, and assembly of different mechanical and electrical components) in given deadline.
- Awarded by **DSBM National Student award** for **Best B.tech Project** in Mechanical Engineering at 24th National Students convection by **ISTE(Indian Society for Technical Education)**

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Ludhiana, Punjab, 141123

ADDITIONAL DETAILS

- Father's name : Satyapal Singh
- Marital Status : Unmarried
- D.O.B : 12/01/2000
- Interests : Cricket & Volleyball

SKILLS

- Utility operation & management.
- Mechanical maintenance.
- ETP Parameter Testing.
- AutoCad Drafting.
- Erection & commissioning.
- JD Edward (ERP).
- Manpower planning & Inventory management.
- Frames & structures Fabrication.
- 5S, TPM & KAIZEN Implementation.
- Computer Proficiency.
- Team Co-ordination.
- Quick Grasping.

CERTIFICATES

- AutoCad complete course in 2D+3D (**September 2022**)
- Diploma in Computer Application (DCA) (**January 2019**)
- CNC Lathe Turning setup and operation (**November 2019**)

LANGUAGES

- Hindi
- Punjabi
- English