



Malik Shahzeb Ahmed

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WORK EXPERIENCE

01/01/2023 – CURRENT Pezu, Pakistan

ASSISTANT MANAGER – POWER GENERATIONS LUCKY CEMENT

01/01/2022 – 31/12/2022 Pezu, Pakistan

TRAINEE ENGINEER - POWER GENERATIONS LUCKY CEMENT, PEZU, PAKISTAN

MECHANICAL OPERATION DEPARTMENT - POWER GENERATIONS

1. Working in operation team of **110MW** diesel engine powerplant containing **seven 32DF, three 50DF, and three 34DF Wartsila engines**.
2. Supervise and implement all operational activities in the Power Plant to ensure safe, reliable, and efficient operations.
3. Checks and monitors operating parameters and ensures that they are within limits. Initiates corrective and preventive actions on abnormalities.
4. Prepare different types of reports like **Daily Generation reports**, Stock sounding report, **SLOC, SFOC**, Premature failures and Executive summary reports.
5. Assist Manager Operations in different **KPIs** preparing regarding plant factors, plant availability, and plant reliability on daily, monthly, and yearly basis.
6. Ensured safe working environment at plant by implementing Wartsila Finland O&M policies like **5S implementation, Hazard Identification and Risk Assessment (HIRA), Job Hazard Analysis (JHA) and Lockout & Tag out (LOTO)** procedures.
7. Coordinate with maintenance team regarding any schedule, emergency, and unplanned maintenance outage.
8. **Prepares Work Order requests and Operations records using SAP Plant Maintenance Module.**
9. Responsible for unit startup writing shutdown isolation / de-isolation procedures & safety work permit system and to carry out the audits to ensure the standards.
10. Leading plant personnel in Isolating and Normalizing Plant/Unit/equipment for issuing/ cancelling of work permits to maintenance, in coordination with **CCR**.
11. **Monitors and ensures quality of cooling water, lube oil and fuel are maintained.**
12. Troubleshoot in case of any abnormality and initiate remedial measures to prevent unnecessary down time or forced outage.

PLANNING AND PROJECTS DEPARTMENT - POWER GENERATIONS

1. Erection and commissioning of **34MW Solar Power System with a 5.589MWH Reflex Energy Storage**.
2. Ensure the overall site progress with the help of the other departmental managers and report it to the project manager.
3. Preparing plant monitoring dashboards to provide visibility of the actual vs committed plant performance.
4. Identifying causes of underperformance, its investigation and analysis and then implementing remedial measures.
5. **Develop RAMs/RACI, BOQs, BOMs and implement Project Management Phases along with Contractor Management, Vendor Management and Earned Value Management.**
6. Develop and determine all standards to perform inspections and tests on site using international standards like **ASME/AISI/ASTM** etc.
7. Manage all the documents of the complete project, including **Transmittals, Factory Acceptance Tests (FATs)**, certificates, **Request for Information (RFIs), Request for proposal (RFPs), Request for price quotation (RFQs) Non-Compliance Reports (NCR)**, progress chart and reports etc.

23/08/2021 – 25/12/2021 Taxila, Pakistan

STUDENT RESEARCH ASSISTANT UNIVERSITY OF ENGINEERING AND TECHNOLOGY, TAXILA

- Analysed quantitative results of my final year thesis and drafted a research paper
- Expressed results and findings in form of a presentation and conference paper in an international conference
- Co-authored a research paper and submitted it to the International Journal of Engineering Research

06/10/2020 – 03/11/2020 Sargodha, Pakistan

MECHANICAL INTERN TOYOTA SARGODHA MOTORS

- Maintenance and overhauling of V8 and straight-4 engines

- Assemble different parts of the engine

23/07/2019 – 05/08/2019 Faisalabad, Pakistan

MECHANICAL INTERN PEPSICO (PUNJAB BEVERAGES COMPANY PVT LIMITED)

- Maintenance of Tetra Pak A3 machine
- Maintenance of water purification plant
- Worked on automatic palletizer and packing machine
- Use manufacturing techniques like blow molding and injection molding

● EDUCATION AND TRAINING

20/10/2017 – 22/08/2021 Taxila, Pakistan

B.SC MECHANICAL ENGINEERING University of Engineering and Technology-Taxila, Pakistan

Address Taxila, Pakistan | **Website** <https://web.uettaxila.edu.pk/> | **Final grade** 3.56CGPA

2017 Sargodha, Pakistan

HIGHER SECONDARY SCHOOL CERTIFICATE Army Public School & Collage System, Sargodha

Address Sargodha, Pakistan | **Website** <https://apsacssectt.edu.pk/> | **Final grade** 84.7%

2015 Sargodha, Pakistan

SECONDARY SCHOOL CERTIFICATE Army Public School & Collage System, Sargodha

Address Sargodha, Pakistan | **Website** <https://apsacssectt.edu.pk/> | **Final grade** 89%

● DIGITAL SKILLS

Microsoft Office | Microsoft Word | Arena simulation | Ansys Workbench, Ansys Fluent | Creo parametric | MATLAB&Simulink | AutoCAD | LaTeX | TRNSYS - Transient System Simulation Tool | C++ | TRNSYS (Transient System Simulation Tool)

● ADDITIONAL INFORMATION

PUBLICATIONS

"Design and Experimental Investigation of Thermosiphoning Heat Transfer through Nanofluids in Compound Parabolic Collector" Engineering Proceedings 12, Jan. 2022

– 2022

Conference paper based upon final year project and focusing primarily on numerical analysis of thermosiphon using ANSYS and indoor lab scale experimentation.

"Design and Experimental Investigation of Thermosiphoning Heat Transfer through Nanofluids in Compound Parabolic Collector" International Journal of Engineering Research

– 2022

Extended version of conference paper including mathematical model for convective fluid flow and experimentation on CPC under real conditions.

Submitted

CONFERENCES AND SEMINARS

10/11/2021 – 11/11/2021 – University of Gujrat, Pakistan

1st International Conference on Energy, Power and Environment Presented a conference paper on renewable energy technologies as an oral presenter and got the opportunity to interact and share ideas with international field expert professors.

PROJECTS

Design and experimental investigation of forced and thermosyphon heat transfer using Nanofluids in Compound Parabolic Collector (Final Year Project)

HVAC and Hybrid Solar Power System Design for a house by using hand calculations and HAP

Design of solar flat plat collector for residential heating

CFD analysis of ventilation in a hospital to reduce spread of COVID-19

Analysis of Toyota 1.8L VVT-i ZZ Engine Working, Maintenance and Troubleshooting

Fabrication of a Radar Speed Gun using Arduino Uno

NETWORKS AND MEMBERSHIPS

2017

General member at IMechE UET Taxila

2017

General member at ASME UET Taxila

2019

Management Director at IMechE UET Taxila

2020 – 2021

Honorary Secretary at IMechE UET Taxila Arrange and prepare the agenda for monthly committee meetings (with the Chairman) as well as taking and circulating minutes to the Committee. I was also responsible for advertising meetings and events to the Panel and nonmembers via e-mail and other media. Serve as head of national-level events like Speak Out For Engineering (SOFE) and Design Challenge.

CERTIFICATES AND ACHIEVEMENTS

CURRENT

Engineering Project Management: Initiating and Planning

Rice University, Coursera

CURRENT

Programming for Everybody (Getting Started with Python)

University of Michigan, Coursera