

RESUME



MUHAMMAD KAMRAN
S/O
MUHAMMAD NAEEM

Objective:

To have a challenging position in chemical engineering where I could apply all major principles and applications by which I could enhance my level of responsibilities and professional growth and also being an active part to achieve the organization's goals.

Profile Summary:

A Chemical Engineering Graduate, with more than ten years working experience of Waste Heat Recovery (WHR) Power plant associates with cement plant and also expertise in the field of Industrial water treatment operations and trouble shootings.

Academic Qualification:

► **B.E. (Chemical)** with 1st Division 2005
from **N.E.D. University of Engg: & Technology**, Karachi.

Professional Experience:

1 - Working in Waste Heat Recovery (WHR) project as **Manager (HOD)** at Lucky Cement Limited, Karachi from (October'10 to present)

► Company Profile:

Lucky Cement Limited (LCL) is one of renowned and top most cement manufacturers in Pakistan. LCL has owned and committed to green environment and installed a 15MW steam turbine project hookup with exhaust gases from kiln and pre-heater gases to utilize to convert into thermal energy from waste heat recovery plant. The WHR plant consist of 15MW steam turbine (SINOMA) and auxiliaries comprises 150psi medium pressure fully equipped 06 boilers having steam output capacity of 63 TPH @ 1.25MPa pressure, BWRO Plant (METITO) having capacity of 634000 GPD, Deionization Plant (VEOLIA WATER) having capacity of 126800 GPD. Site erected cooling tower with four cells.

► Job Responsibilities:

- My role is to supervising and monitoring & optimizing 15MW steam turbine, 50m³ x 2 Metito RO Plants, Veolia Water x 2 DI plant, 14.5 TPH boilers & 4000M³ cooling tower operations & troubleshooting.
- Working as Power User on SAP S/4 HANA Version – 1511 Module PP & PM
- Ensure adequate availability of critical spares in terms of CAPEX and Revenue for handle unforeseen troubleshooting and smooth operation of steam turbine.

- Attending Management Review Meeting (MRM) on monthly basis.
- Manage and maintain legal requirements of boilers certificates from boiler inspector on timely basis.
- Conducting ISO External/Internal audits and safety compliance.
- Quality control and technical compliance.
- Ensure subordinates & their teams fulfill their roles & responsibilities.
- Ensure that adequate and appropriate material tooling & resources are procured and utilised.
- Indenting, spares and budget forecasting for fiscal year.
- Manage technical & human resources to achieve maximum efficiency.
- Manage resource & materials etc. to deliver outage on schedule.
- Manage reporting on time & costs of planned and emergent work
- Evaluate and compare quotations, BOQ for third party for out-source maintenance jobs.
- Produce and compile as required reports, data & documentation.

► **Achievements during Lucky Cement Limit:**

- Major Overhauling of 15MW steam Turbine with Sinoma EC Engineers Team. In April-2018 & connecting 02 new boilers of Line-H to main steam header.
- Major Overhauling of 15 MW Steam Turbine with Orient Energy Systems in April-2022, with Rotor alignment/balancing from WAPDA Workshop, Faisalabad.
- Major maintenance/replacing of AQC boilers Super heater, Convection bank and Economizer Fin Tubes, dismantling, reinstalling and achieve max efficiency of AQC boilers.
- Major overhauling of site erected cooling tower for improving performance.
- Installation and commissioned of 02 RO Plant and 01 DI plant.

2 - Deputed at Lucky Cement Limited as Senior Services Engineer (industrial water treatment) on behalf of Orient Water Services (Pvt) Ltd. Karachi, (from January'10 to September'10)

► **Company Profile:**

Orient Water Services (OWS) engaging in industrial water treatment chemicals, exclusively **ASHLAND Hercules Water Technologies**. Ashland, a Fortune 500 company, is one of the largest water treatment companies worldwide, providing a wide array of innovative water treatment solutions since 1907.

► **Job Responsibilities:**

My role is to supervising and monitoring the operation of Reverse Osmosis plants having capacity of 15000 GPD.

Pre and post-chemical treatment of RO, ID cooling tower and medium pressure boilers.

To provide technical backup support services at Lucky Power Generation Plant having capacity of 90MW.

Complete Installation, startup, trouble shooting, equipment tuning, post startup services, and consulting as needed regarding water treatment.

Monitoring the chemicals inventory, costing & budgeting.

3 - Deputed at Gas Purification Plant of Pakistan Petroleum Limited (PPL), Sui, Baluchistan, as Services Engineer (industrial water treatment) on behalf of Orient Water Services (Pvt) Ltd. Karachi, (from March'06 to December'09)

► **Project Profile:**

Pakistan Petroleum Limited (PPL), pioneers of natural gas industry in Pakistan. PPL operates Sui (Pakistan's largest gas field) producing 500MMSCF gas since 1952.

► **Job Responsibilities:**

My role is to supervising and monitoring to ensure advanced water treatment program including complete automation & control, implemented at amines treating Natural Gas Purification Plant (GPP).

To maintain computerized record of daily analysis data sheets through Advanced DREWTRAX® Software and maintain close contact with all sectional head on matters concerning to the chemical treatment and pretreatment of cooling / boiler water.

Monitoring and maintaining the chemistry of process water circulating in Heat Exchangers (Shell & Tube, Plate & Frame types), Secondary Gas Coolers, and Inlet Gas Coolers, Sales Gas Coolers and induced draft cooling towers, cooling water circulating pumps, and Gas Turbines accordingly.

To install corrosion coupons of related metallurgy on quarterly basis to monitoring corrosion rate of the system and arrange dosage of all related chemicals under direct supervision.

Conduct regular sampling and analyzing of process cooling water according to the ASTM methods followed by HSE.

Periodically adjustment of cooling water velocity through ultra sonic velocity flow meter.

Complete Installation, startup, trouble shooting, equipment tuning, post startup services, and consulting as needed regarding water treatment.

Coordinate with head office on technical issues/matters, provide feedback on priority

Daily and periodically equipments inspection and assessment of chemical treatment program, preparing monthly review reports, and submitted to Head Office at **PPL**.

Monitoring the chemicals inventory, costing & budgeting.

4 - Working at Radiant Chemical (Pvt) Ltd, Karachi. (Water Treatment Division) as Technical Sales & Services Engineer (From Jan'05 to March'06)

► **Company Profile: Radiant Chemical (Pvt) Ltd**, manufacturers and suppliers of dyestuffs, chemicals and measuring instruments. Manufacturers' representatives.

► **Job Responsibilities:**

To retain and enhance the water treatment chemicals business & provide technical backup support services to existing clients in different industries at Karachi.

To check and maintain the industrial water quality according to the set-parameters, performing by complete industrial water analysis tests.

To prevent the industrial equipments like Boilers, Cooling Towers, Chillers, Compressors, Humidification plants and R.O plants from scale/corrosion, Special synthetic Scale/corrosion inhibitors.

As well as control of microbiological growth through proper dosing of chemicals (Oxidizing & Non- Oxidizing Biocide).

Familiar with power generation plants (I P P's).

Publications/Project Report:

The Desalination Of Sea Water By Reverse Osmosis.

Fundamental Concepts, Principles of R.O, Pretreatment Steps of R.O

Chemical Design, Post Treatment and Evaluation of Economics.

Advantages, Limitations and Applications of R.O.

Internship Training:

Six weeks training at **National Refinery Limited**. Pakistan.

Distillation of Crude Oil

Specification and Classification of Crude Oil, Laboratory Tests.

Refinery Fuel / Lubricants Products. Fire & safety.

Special Skills/Personal Strength:

- Expertise in Industrial Water, Wastewater, Well water and Effluent testing/treatment processes.
- Prepare, evaluate and review proposals, technical report writing.

- Familiar with Block Diagrams, PFDs and P & IDs.
- Ability to evaluate the performance of process heat and mass transfer equipments.
- Proficient with MS Office, Windows XP, Windows 8 and the Internet.
- Spoken, written and reading ability of English and Urdu.
- Able to blend within a team, also a good team leader and strong capability of decision making
- Very good analytical skills to troubleshoot and resolve issues, problem solving in an organized way
- Effective Communication and Presentation Skills
- Ability to work under pressure while meeting tight deadlines.

Membership:

- Registered Engineer from Pakistan Engineering Council (PEC).

Training Certificates:

- Certificate of Appreciation from Lucky Cement Limited on behalf of Orient Water Services.
- Commissioning & operation certificate from METITO Dubai Overseas (Pvt) Ltd.
- QMS & EMS Training certificate for Lucky Cement Limited.
- Training Certificate of Industrial Water Treatment from NELCO – ICI.

Personal Details:

- CNIC No: 45504-5926826-1
- Date of Birth: 20- 08- 1974.
- Place of birth: Sukkur
- Religion: Islam.
- Marital Status: Married
- Nationality: Pakistani

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References:

Will be furnished upon request.