

# NAVEED SALMAN

## Chemical Engineer (PEC # 14993)

[enr.salmanshakeel@gmail.com](mailto:enr.salmanshakeel@gmail.com)

0092-321-7512321

Near to Ghazi Masjid

Raiwind, District

Lahore.

Lahore 55150 Punjab, Pakistan



### Objective

Achievement of given responsibilities for better results to become an active Leading part of the society. Enthusiastic to learn understand applied knowledge of chemical engineering committed to impart best knowledge and skills to the community.

### Projects:

- ✓ **Implementations 5s (Shafi Texcel limited)**
- ✓ **Waste water Project (Shafi Texcel Limited).**  
Erection and commissioning of Effluent Treatment Plant (**Design Flow -1800m<sup>3</sup>/Day**)
- ✓ **Caustic Recovery Plant with KORTING –The Ejector Company.**  
Erection and commissioning of Caustic Recovery Plant (**Design Flow -9000 Liter/Hr**)
- Final Year Project (Comsates Universty).**
- ✓ **100,000 Tons per year Production of Benzene by Hydrodealkylation of Toluene**  
Design & fabrication of test bench for both schemes (co current and counter current) of shell and tube heat exchanger. Test bench was designed to verify the heat exchanger on its LMTD value with compatibility for varying flow rates and other parameters.

### Work Experience:

- **Pearl Paints Limited, Raiwind.** Sep 02, 2015 - Oct 02, 2015  
Worked as “Internship” Supervision and taking an active part in management of routine activities.
- **Muhammad Shafi Tanneries Private Limited, Karachi.** Oct 03, 2015 - Mar 28, 2016  
Worked as a “Trainee Engineer” for the water treatment maintain work of **UTILITY ..**
- **Shafi Texcel limited 4.5 KM Manga Road Raiwind.** Apr 05 2016 – Present  
Working as a “Assistant Manager “ for the water treatment maintain work of **UTILITY ..**

### Job Description:

- Effluent Treatment Plant
- Caustic Recovery Plant
- RO Plant
- Boiler Water Treatment
- Compressor
- Chiller
- Cooling Tower
- Softening Plant & Sand filter
- Maintain Work of Utility
- Drinking Water & Maintain Quality

## **Major Responsibilities:**

- ❖ Plan and manage all activities of effluent treatment plant (Activated Sludge System)
- ❖ Calculate the dosage of chemicals as per flow rate of the effluent waste water.
- ❖ Prepare daily consumption report of chemicals and submit to manager utility
- ❖ To monitor the parameters like **pH, COD, DO, TDS, SVI, MLSS, MLVSS**  
And **TSS at different stages of ETP.**
- ❖ To calculate the cost of chemicals and energy used for each month.
- ❖ Documentation of all activities regarding customer audits like NEQS
- ❖ Training and implementation of junior staff on MSDS of chemicals, health & safety and
- ❖ To carry out the sampling activity of each month for analysis by SGS Pakistan for the compliance of **NEQS and GER (Global effluent requirement)** standard
- ❖ To carry out the lab scale experiments to optimize the usage of chemical.
- ❖ To monitor all the parameters of **Caustic Recovery Plant (9000 liter per hour)**
- ❖ To analyze the **Boiler Water (15 ton/hour coal boiler)** and maintain its quality.  
(Pre-treatment, corrosion inhibition, O<sub>2</sub> scavenging, anti-scalant and dispersant )
- ❖ **Cooling systems** (exchangers, chillers, closed cooling water loops, cooling towers  
(Corrosion inhibitors, anti-foulants, biocides, algacide, and dispersants).
- ❖ **Water quality analysis** (*Standard Methods, EPA and ASTM* water and deposit analysis techniques)
- ❖ To analyze the quality of **RO Water (15 ton/hour)** and softening water and maintain its quality. **pre-treatment system design** and understanding of membrane fouling processes, and cleaning/maintenance chemical programs
- ❖ To analyze the **Chiller (500m<sup>3</sup>/hour), Cooling Tower Water** and engines close circuit water and maintain its quality.
- ❖ Analyze reports and communicate poor quality results to officers.
- ❖ Monitor all operational issues and report any malfunctions.
- ❖ Perform regular maintenance work on **Chemical Feed** system and **alarm signals** on computer control system.
- ❖ Prepare and submit monthly report for smooth functioning of plant operation.
- ❖ Maintain efficient use of pump and ensure appropriate lubrication for all

machines and monitor water pressure

- ❖ Monitor and interpret all chart and graph for test results and monitor treatment process of all water plant as per quality standards.
- ❖ Supervise effective maintenance of all water purifying equipment's in plant.
- ❖ Calculations of caustic **RECOVERY**.

## **Education:**

- ✓ **Comsats University of Sciences and Technology Lahore, Pakistan**  
Bachelors in Engineering, Chemical Engineering (Sept 2015) 1<sup>st</sup> Division
- ✓ **Mansoorah Degree College Lahore, Pakistan**  
Intermediate, Pre-Engineering, (Sept 2011) 1<sup>st</sup> Division
- ✓ **Govt. High School, Raiwind, Pakistan**  
Matriculation (Aug 2009) 1<sup>st</sup> Division

## **Professional Courses:**

- ✓ Certification The Health & Safety **Level 2**.
- ✓ Certification in Nuclear Waste Management from **PEC**.
- ✓ Certification of **Personality Grooming for Excellence**.

## **Achievements:**

- General Secretary of **CLEMS (2014-2015)**.
- Won the title of "**Chess Master**" in intra university competition.
- Successfully **Erection and Commissioning of ETP** within time interval with **WOG** Group.

## **Skills:**

- ❖ **Packages/Tools:** Microsoft Office, Pro-Engineer, Auto CAD, C++ and MATLAB.
- ❖ Technical and business writing.
- ❖ Fast learner, team player, time management and excellent ability of team leaders

## **Personal Details:**

Father name: Shakil Ahmad

National ID card No:352023971072-1

Domicile: Lahore

Religion: Islam

Marital status: Single

Gender: Male

Nationality: Pakistani

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