

# UMER IQBAL

## Laboratory Technician/Analyst/Chemist

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Karachi, Pakistan



## SUMMARY

A proficient and solution-oriented expert with a profound understanding of analytical software and a diverse array of tools. Highly skilled in the meticulous upkeep of records, consistent SAP updates, proficiently resolving issues, and offering impactful recommendations.

A top-tier and ingenious collaborator, recognized for adeptly cultivating robust connections with plant personnel, fellow team members, and leadership.

Proficient in the art of constructive evaluation and the enhancement of processes through a steadfast commitment to continuous improvement and innovation.

Demonstrates a talent for adhering to established company protocols and standard operating procedures, in full alignment with organizational policies and established methodologies.

## EXPERIENCE

### Laboratory Technician/Chemist

#### Engro Polymer & Chemicals Limited

03/2020 - Present Port Qasim, Karachi

- Spearheaded the adoption of the Global Harmonized System (GHS) to classify and label lab chemicals, resulting in heightened safety and compliance measures and reducing incidents by 15%.
- Accomplished a flawless trial of the plant's solvent-based catalyst, showcasing proficiency in operational testing and contributing to the cost saving mission and saved more than 20% of total cost.
- Various methods develop for Lube oil testing e.g TAN/TBN, Viscosity, wear metals ICP, Moisture, foaming and flash point etc
- Skillfully identified sample contamination, averting potential losses of approximately 12 million PKR and safeguarding the company's reputation from credibility decline.
- Navigated ISO 17025 audit seamlessly, showcasing meticulous record-keeping prowess using software platforms such as SAP and LIMS, while ensuring minimal non-compliance issues.
- Successfully executed meticulously designed process safety management procedures, resulting in a robust safety framework. Spearheaded the diligent upkeep of compliance across Integrated Management System (IMS), ISO-9001, ISO-14001, ISO 45001, and ISO 17025 standards.

### Quality Control Officer

#### National Foods Limited

09/2018 - 03/2020 SITE Area, Karachi

Since inception in 1970, National Foods have evolved into a leading multi category food company that produces 250 different products across 13 categories. We hold ISO 9001, ISO 18001, ISO 22000 and HACCP certifications.

- Performed thorough on-site analysis of a raw salt consignment, promptly identifying contamination. Swiftly implemented corrective measures to mitigate potential losses in both raw materials and finished goods, safeguarding company resources and increased revenue by 10%.
- Led the implementation of a pouch count detection mechanism, identifying instances of under packed and over packed cartons for 20 projects.
- Achieved a substantial reduction in the quantity of KIO<sub>3</sub>, a key factor in iodine content within iodized salt. This accomplishment resulted in a remarkable 15% reduction in chemical costs, all the while upholding the unwavering quality standards of the salt product.
- Managed quality control processes for documents, ensuring compliance with standards for 100% of the projects.

## EDUCATION

### BS (Organic Chemistry)

#### University of Karachi

01/2013 - 06/2017 Karachi

### Intermediate (Higher Secondary Education)

#### Green House College

2010 - 2012 Karachi

## TRAINING / COURSES

### ISO 17025/2017 Certification Training

### OHSH Awareness

### Creative Problem Solving

### Group LOTO & Permit Procedure

### Dupont Environment Management System

### SAP LMS User Functions

### Laboratory & Plant ERP Procedures

### Global Harmonization Standard(GHS)

## CERTIFICATION

### Work Permit Certification

Engro Polymer & Chemicals Limited (Mar 2020)

### Fire Safety Measures

National Foods Limited (July 2019)

### Process Safety Management (PSM)

Engro Polymer & Chemicals Limited (Jun 2020)

### Standby Man Certification (SBM)

Engro Polymer & Chemicals Limited (Jan 2020)

### DEI & Sensitization Certification

Engro Polymer & Chemicals Limited (Jul 2023)

## TOOLS AND EQUIPMENT

### GAS CHROMATOGRAPH (Agilent)

Model 7890-A/ 7890-B

### pH & Conductivity Meter (Thermo Sci.)

ORION STAR A215

### Spectrophotometer (HACH)

DR6000 UV-VIS

DR3900 VIS

### Karl Fischer Moisture Analyzer Volumetric / Volumetric (Metro HM)

Model 870 KF

Model 831 KF

Model 728 Stirrer

## EXPERIENCE

### Management Trainee

#### Engro Polymer & Chemicals Limited

📅 06/2017 - 06/2018 📍 Port Qasim, Karachi

Other than being the sole manufacturer of PVC resin in Pakistan, Engro Polymer & Chemicals Limited (EPCL) also produces Caustic Soda, Sodium Hypochlorite, EDC, and VCM. Moreover, the company is actively involved in ensuring the sustainability of the domestic PVC industry.

- Prepared various reagents and standard solutions crucial for lab operations, showcasing precision and accuracy in 95% of cases.
- Introduced a closed-loop sampling system for Ethylene Di Chloride, mitigating the risk of hazardous chemical spills and ensuring the prevention of foreign contaminants. This strategic implementation not only bolstered operational safety but also reduce waste of chemical which leads to 10% less of overall wastage.
- Secured second position in PSM and Work Permit certifications by maintaining IMS procedures with meticulous record-keeping and achieving a score of 98%.

## SKILLS

MS OFFICE	ONE SAP	LIMS	FIORI
APOLLO (Digital Logbook)	LABORATORY MANGEMENT		
WASTE WATER ANALYSIS	ENVIRONMENT MONITORING		
POWER POINT	PROBLEM SOLVING	ION EXCHANGE	
CHEMICAL HANDLING	HAZARDOUS CHEMICALS		

## LANGUAGES

**ENGLISH (IELTS UKVI Academic Band Score 6.5)** Advanced



**Urdu/Hindi** Native



## TOOLS AND EQUIPMENT

### Atomic Adsorption Spectrometer(Thermo Scientific)

Model ICE 3300

### Turbidity Meter (HACH)

Model 2100 N

### Inductive Coupled Plasma(Agilent)

ICP OES 5110

### DO Meter (HANNA)

Model HI 2400

## PROJECTS

### ZERO GAP ELECTROLYSIS

📅 12/2022 - 02/2023 📍 EPCL, Port Qasim

Performed comprehensive analysis of Brine, Caustic, and Chlorine gas samples extracted from electrolysis procedures. Delivered consistently precise and punctual results, playing a pivotal role in ascertaining the genuine concentration of the end product.

- Very low power consumption, delivers significant energy savings.
- Robust, safe construction with superior strength and resistance to damage and distortion.
- Advanced module sealing reduces the risk of leakage and corrosion.

### Global Harmonization Standard For Labelling and Classification Of Chemicals (GHS)

📅 03/2019 - 01/2020 📍 National Foods, SITE Area

Compiled a comprehensive inventory of all utilized chemicals within the facility. Systematically organized SDS for each chemical, ensuring accessibility and compliance. Undertook the intricate task of converting SDS to the GHS format, meticulously aligning hazard classifications.

- Successfully streamlined chemical management processes by compiling an exhaustive catalogue of all utilized substances.

### De Super Heated Quench (DSQ)

📅 12/2019 - 06/2020 📍 EPCL , Port Qasim

Conducted meticulous analysis of Ethylene Di chloride (EDC) samples, utilizing Gas Chromatography (GC) to accurately ascertain its percentage purity.

- Simultaneously, implemented strategic measures to minimize the utilization of Copper Chloride catalyst, curbing catalyst loss and saving huge amount of cost.
- Boosted profits by 20% through the implementation of the DSQ project, driving an uptick in production.