



USAMA RAFI

(Chemist)

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Pakistan

PERSONAL SKILLS & INTERESTS

- MS Office
- Team Work
- Motivator
- Travelling
- Poetry
- Volley ball
- Snooker

LANGUAGE

- Punjabi
- Urdu
- English

PERSONAL DATA

- DOB: Jan 18 1998
- CNIC # 37101-9614171-5
- Nationality: Pakistani
- Marital Status: Single

OBJECTIVE

To join a dynamic and collaborative team that cultivates a competitive environment, driving personal and professional growth while actively promoting career advancement in the field of chemistry.

ACADEMIC QUALIFICATIONS

- UNIVERSITY OF THE PUNJAB LAHORE, PAKISTAN
MSc Chemistry (2020-2022)
(Specialization Analytical Chemistry)
- UNIVERSITY OF THE PUNJAB LAHORE, PAKISTAN
BSc (2018-2020)
(Math, Physics, Chemistry)
- F.G DEGREE COLLEGE ATTOCK
FSc (Pre-engineering) (2015-2017)
- F.G PUBLIC HIGH SCHOOL ATTOCK
Metric (Science) (2013-2015)

RESEARCH WORK IN MSc

Thesis: Evaluation of *In-vitro* antibacterial and anti-fungal potential in response to *Moringa oleifera* leaves extract mediated copper nanoparticles.

INTERNSHIP EXPERIENCE

Nov 2022- Jan 2023

I completed my internship in the Quality Control Laboratory of the Technical Services Department at Fauji Fertilizer Company (Mirpur Mathelo) in 2022.

JOB EXPERIENCE

Feb 2023- Present

I am currently employed as a Chemist in the Quality Control Laboratory at Agritech Limited (Nitrogenous Fertilizer Company), situated at the Plant Site in Mianwali, Pakistan.

PROFESSIONAL SKILLS

I possess a strong practical knowledge of classical and modern analytical techniques, including Gravimetry, Titrimetry, Colorimetry, and the ability to operate, calibrate, and troubleshoot the following instruments.

- Spectrophotometer
- Flame photometer
- Atomic Absorption Spectrometer
- ICP-OES

- Gas chromatography
- Ion Chromatography
- High Performance Liquid Chromatography
- Flue Gas Analyzer
- Karl Fisher
- Viscometer
- Ion Selective Electrodes (NH₃, CO₂)
- PH/Conductivity Meters

ANALYTICAL WORK

Water Treatment Analysis

Complete analysis of raw water, drinking water, clarified water, demineralized water, boiler feed water, cooling water and waste water according to ASTM procedures.

Gas Analysis

Analysis of process gases included Ar+O₂, N₂, CO, NH₃ on GC using TCD and FID detector. Analysis of waste gases like CO, SO₂, O₂, NO₂, NO, NO_x by using Flue Gas Analyzer.

Lube & Fuel Oils Analysis

Analysis of fuel oil, lubricating oils for pumps, turbines, compressors, engines for their smooth operation and quality control by analyzing moisture, viscosity, acid number, suspended solids.

Soil, Fertilizer and Raw Materials Analysis

Analysis of soils for salinity and micro nutrients, quality control analysis of urea. Analysis of catalyst, scales or sludge, cationic and anionic resins materials.

Environment Monitoring

Analysis of plant effluents (liquid, solid, gases) according to ASTM procedure for controlling EPA regulatory limits. Preparation analysis reports as per EPA requirement under ISO-14001.

SAFETY, HEALTH & ENVIRONMENT

- Awareness of work permit procedure and use of personal protective equipment (PPE)
- Awareness of LAB safety rules which include glassware handling, Safe use of hazardous chemicals, laboratory housekeeping.
- Awareness of basic first aid used in laboratory.