

## MUHAMMAD ASIF



Father Name: Rana Abdul Ghafoor  
D.O.B: 16-12-1993  
Passport No: FY1882091  
Address: Basti Behli P/O Ghazi Pur Tehsil Jalal Pur Pir Wala Distt. MULTAN.  
Contact: +92-313-6001388, +92-302-4416200  
E-mail: [rasif.ghafoor93@gmail.com](mailto:rasif.ghafoor93@gmail.com)

### Profile Summary

A Goal oriented professional with **11-years'** experience in water treatment field.

I have full command on operation, troubleshooting, commissioning of Mechanical filtration, Reverse Osmosis, Ultra-filtration, EDI system and cooling tower as well as testing procedures of all water testing, steam testing and boiler-chemistry control.

To work in a progressive environment with better opportunities and career growth, where I can interactively use my educational and professional experience and interpersonal skills.

### TOTAL EXPERIENCE (11 year)

#### Employment History:

Employer: **Nishat Chunian Electric Company Limited**  
Designation: **Supervisor Water Treatment Plant**  
Duration: 20<sup>th</sup> June 2016 to till date

Employer: **Coca Cola Beverages Pakistan Limited:**  
Designation: **WTP Operator**  
Duration: 20<sup>th</sup> May 2015 to 19<sup>th</sup> June 2016

Employer: **Water Engineering and Management Services**  
Designation: **Service Engineer**  
Duration: 21<sup>th</sup> Oct 2011 to 10<sup>th</sup> May 2015



**Nishat Chunian Limited: (Coal Plant)**

#### **Responsibilities:**

- ❖ Operation, maintenance and troubleshooting of Water Treatment Plant which includes Reverse Osmosis, Ultra filtration, and Mixed bed Polisher, EDI, Multimedia filters, Activated Carbon filters.
- ❖ Operation, maintenance and troubleshooting UF and RO plants installed at Cooling Tower Blow down Recycling.
- ❖ Supervise the Operation and maintenance of cooling tower having RR 3x3800 m<sup>3</sup>/hr. and its complete chemical treatment (Anti-Scalants, Biological and Corrosion Treatment)
- ❖ Chemicals handling like sulfuric acid, hydrochloric acid, caustic soda, antiscalent.
- ❖ Responsible for the normal operation / startup / shutdown / trouble shooting / emergency handling of the unit in a safe and efficient manner & identify abnormal situations report to the shift supervisor and take appropriate (e.g., shutdown of parts or all of the plant)
- ❖ Responsible for issuing work permits to carryout safe maintenance job.

#### **QA/QC Lab Testing:**

- ❖ Complete water analysis of Boiler, Cooling Tower and Reverse Osmosis Plant, Ultra filtration and mixed bed Polisher and Calculate LSI, RSI, SDI.
- ❖ Complete water testing includes raw water, chlorination.

- ❖ Water testing includes pH, Conductivity, TDS, Total hardness, Calcium Hardness, Magnesium, Sulfates, chloride, alkalinity, free chlorine, turbidity.
- ❖ Experience of using lab equipment's like pH meter, Conductivity meter, Spectrophotometer, alkalinity analyzer, titrations.
- ❖ Operation of online boiler Chemical dosing and steam, water analyzing system of boiler water (SWAS) to control the water chemistry of 2x110 TPH CFB Boiler
- ❖ Analyzing Complete water chemistry of boiler feed water, condensate, steam, Cooling Tower, jacket water, close circuit water RO Plant, ACF. MMF and RO plants.
- ❖ Calibration of all Laboratory instruments like pH meter, conductivity meter, TDS meter, DO meter.

#### **RO PLANT CAPACITY**

- ❖ 2\*18 T/hr. (Recovery rate 75%)
- ❖ 2\*10 T/hr. (Recovery rate 85%)

#### **UF Plant Capacity**

- ❖ 2\*20 T/hr.

#### **MIXBED**

- ❖ 2\*20 T/hr.

#### **COOLING TOWER**

- ❖ Induce Draft type (03 IDF).
- ❖ Circulation rate 7960 m<sup>3</sup>/hr.
- ❖ 03 CW pumps capacity 3800 m<sup>3</sup>/hr. each.
- ❖ 02 auxiliary cooling water pumps having capacity 570 m<sup>3</sup>/hr. each.
- ❖ Chemical Dosing system
- ❖ Side stream Filter (Turbidity control)



#### **Coca Cola Beverages Pakistan Limited:**

I have worked With Coca Cola Beverages Pakistan Ltd, Gujranwala as Water Treatment Plant Operator.

#### **Responsibility: -**

- ❖ Conducts and performs daily inspection, maintenance and operational checks to insure safe, reliable and proper operation
- ❖ Ensures that treated water meets all requirements of Food Safety and the Safe Drinking Water Act.
- ❖ The day-to-day operations include sampling and testing of raw water including process, testing and maintenance of daily logs and reports
- ❖ Prepares and signs off on all laboratory reports submitted to the Department. Maintains quality assurance of lab procedures and testing
- ❖ Works with hazardous chemicals including HCl, H<sub>2</sub>SO<sub>4</sub>, Sodium hypochlorite and other treatment chemicals which provided by Services Companies.
- ❖ Maintains all meters including the reading and maintenance.

#### **RO Plant Capacity**

- ❖ 1\*100m<sup>3</sup>/hr. (90% Recovery Rate)
- ❖ 1\*50m<sup>3</sup>/hr. (75% Recovery Rate)
- ❖ 1\*60m<sup>3</sup>/hr. (75% Recovery Rate)
- ❖ 1\*34m<sup>3</sup>/hr. (75% Recovery Rate)

#### **Ultra-Filtration Plant Capacity**

- ❖ 1\*120m<sup>3</sup>/hr.
- ❖ 1\*80m<sup>3</sup>/hr.



#### **Water Engineering and Management Services Lahore**

I have worked in Water Treatment Company **Water Engineering and Management Services** as a Service Engineer/Lab Analyst which I performed all required lab test and procedure to maintain Water Quality and regarding Plant efficiency.

- ❖ Supervises monitors and implements production requirements and develops daily work program taking into account any amendments in requirements, planned maintenance or work over schedule.
- ❖ Proper inspection of the installed equipment i.e., Pumps, Valves, Blower, Dosing systems, Cartridge Filters, Sensors, Pressure Gauges & Flow Meters.
- ❖ Calculation of the chemical's requirement for the dosing, cleaning of RO Plant, regeneration of the softener, SAC, WAC, SBA & MBP
- ❖ All water analysis & Chemical Treatment for water system.

### **Main Commissioning Power Plant Projects**

- ❖ Well command on Demin plant, Membrane separation process, Designing, operation, commissioning, troubleshooting, and maintenance
- ❖ Command on cooling tower, water treatment, boiler internal treatment, Demin plant commissioning, operation, troubleshooting.
- ❖ Experience in RO/RO pre-treatment system design and understanding of membrane fouling processes, and cleaning/maintenance chemical programs, commissioning of RO Plant
- ❖ Operation and maintenance, commissioning of Ultra filtration.
- ❖ Commissioning and operation of Nano filtration.
- ❖ Operation, commissioning, multi-media filter back washing and regeneration of Demin plant.
- ❖ Assists and coordinate with client on the passivation and disinfection activities of piping systems. Demineralization water treatment plant.
- ❖ I have done cleaning and troubleshooting of R-O (Reverse Osmosis) plant which are listed below:
- ❖ Coca Cola Beverage Pakistan Ltd, (Lahore, Gujranwala, and Multan)
- ❖ Kalash Mills Faisalabad,
- ❖ Interloop HD-1 & HD-2 Faisalabad and Interloop HD-3 Lahore.
- ❖ Sitara Peroxide Ltd Faisalabad
- ❖ Liberty Power Tech Ltd Sahianwala, Faisalabad
- ❖ I have worked as Asst. Lab Chemist and prepared solutions.
- ❖ Multimedia filters RO, Degasfier, Mix Bed commissioning at Ghotki Sugar Mill (JDW-3 Power Plant 30MW Bagasse Base Ghotki Sindh).
- ❖ Multimedia filters RO, Degasfier, Mix Bed commissioning at United Sugar Mill (JDW-2 Power Plant 30MW Bagasse Base Sadiqabad).
- ❖ RO, UF, Mix bed commissioning at Nishat Chunian Electric Company Lahore

### **SKILLS AND TRAINING**

- ❖ Fire Fighting
- ❖ Work Permit Procedure
- ❖ Chemical Handling
- ❖ Plant Emergency Handling
- ❖ Maintenance Job Execution
- ❖ Confined Space Entry

### **Qualification**

<b>Degree</b>	<b>Div.</b>	<b>Year</b>	<b>Board</b>
<b>DAE (Chemical)</b>	1st	2011	PBTE LAHORE
<b>Matriculation.</b>	1st	2008	BISE Multan