

# Hafiz Abdul Rehman



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## EXPERIENCE BRIEF

## SKILLS SUMMARY

You can definitely count on **12+** years of professional experience in Water & Fuel Chemistry of Combine Cycle Power Plant, Chemistry of Heat Recovery Steam Generators/High Pressure Boilers, Chemistry of Water Treatment Facilities including Clarifiers (WPTP), UF, SWRO, BWRO, Demineralization and Electro deionization Plants. Petroleum REFINERY, Naphtha, Kerosene Oil Diesels, Furnace oil & independently running Water & Fuel Lab Instruments.

- Proficiency in Q4Power by Engica (Computer Aided Maintenance Management System) simulations.
- Proficiency in Eclipse by Nisoft (Safety Management Solution) , MS-office
- Experience in Multivariate data analysis
- Excellent literature review, research, and operational manual review skills. I am very good at searching, collecting, and organizing data from Library, research papers as well as online resources.
- Awareness of QMS, EHS and OSHA and working as a MR Assistant for getting, 14001:2008, 14000:2004 & 18000:2007 and attends workshop in IMS.
- Completed HAZOP and Risk Assessment Analysis for projects at KAPCO Power Plant.

### Power Plant Lead Chemist

[Dec 2016 – current]  
Chemical &  
Environment, Kot Addu  
Power Complex 1600MW  
Kot addu – **Pakistan**

### Engineer Water Treatment Division

[July 2015 – Nov 2016]  
MAJ international.  
Karachi – **Pakistan**

### Shift Chemist/ Chemical Engineer Water & Oil Operation

[Nov 2014 – June 2015]  
GE Power & Water O&M Alkhairat  
Gas Power Plant 1200MW  
Karbala – **IRAQ**

### Associate Engineer Operations

[Oct 2012 – Oct 2014]  
K-Electric Bin Qasim  
Power Station 560MW  
Karachi – **Pakistan**

### Shift Chemist Refinery Operations

[Jan 2009 – Sept 2012]  
Enar Petroleum Refinery  
Facility  
Karachi – **Pakistan**

## ACADEMIC QUALIFICATIONS

### MS/ MPhil – Industrial Chemistry

NED university of engineering and Technology Pakistan – 2016  
CGPA 3.65 / 4.0

### Bachelor of studies (BS) – Applied Chemistry & Chemical Technology

University Of Karachi, Pakistan– 2010

## PERSONAL INFORMATION

**Nationality:** Pakistani      **DOB:** 21<sup>st</sup> April, 1989

**Languages known:** English, Urdu

**Quran Hafiz** (Quran memorizer)

**Marital Status:** Married

## PROFESSIONAL TRAININGS

- 10 DAYS EMS 14001:2015 Lead Auditor Course, SGS Pakistan
- 7 DAYS QMS 9001:2015 Lead Auditor Course, SGS Pakistan
- Transition course of OHSAS 18001:2007 to ISO 45001:2018, PIQC Pakistan
- Training on Persistent Organic Pollutants in Pakistan by GEF.
- Completed course of Safety Controller, KAPCO Pakistan.
- HSE, Fire and Safety trainings in U.A.E., Iraq and KAPCO.
- Training in Heat rate improvement of combined cycle power plant. 2017
- 5 Days Training on Water treatment including HRSG, Cooling towers, Reverse Osmosis. Dubai.
- 5 Days Training on Electro deionization and demineralization of water. Dubai
- Training on activated carbon for water treatment facility by Norite
- STAR OF THE MONTH" employee award at BQPS-2, BIN QASIM POWER STATION-2 560MW K-ELECTRIC LIMITED.

## INTERNATIONAL CERTIFICATIONS

Certificate Title	Provider	Accomplishment Year
<b>QMS – ISO 9001:2015</b>	SGS	2019
<b>EMS – ISO 14001:2015</b>	SGS	2019
<b>ISO – 45001:2018</b>	PIQC	2019

## Technology Expertise & Knowledge

### Eclipse by Nisoft software

- Safety documents/permits.
- Access Certificates.
- Hot work permits.
- Confined space permits.

### SAP

- Safety documents/permits.
- Generate work orders.

### Safety Controller.

- Authorized plant safety controller and prepare safety documents to protect system's safety.

### Q4 engica

- To raise work order.
- Troubleshooting.
- Preventive maintenance.
- Fault and adhoc work orders.
- Stock management.

### SMART

- SMART self-monitoring environmental report to generate environment report through this software tool

## PROFESSIONAL EXPERIENCE

### **Dec' 15 to present, Kot addu power complex.1600MW – Pakistan – Power Plant Lead Chemist**

- Monitoring equipment and processes to evaluate efficiency and quality of Fuel Laboratory (Gas turbine), Water & Steam Cycle of HRSG and Steam Turbine and Cooling Towers and Chemicals.
- Have completed risk assessment such as HIRADC /HAZOP analysis for project
- Independent handling laboratory and Water Treatments Plants for process optimization
- Managing power plant chemical regimes / Laboratories, Chemical sections staff, (10 to 40 personnel at different times), Operation, Calibration and Routine Maintenance of Laboratory Equipment and Water Pretreatment & Treatment Plants (UF, Reverse Osmosis and Demineralization etc.)
- Have Hand on Experience on all Fuel and Water Testing Equipment such as Spectroil MF/W (trace metal analyzer for liquid fuels), Sulfur Analyzer, Karl Fischer moisture Titrator, Flash point Apparatus, Pour point apparatus, Parr Calorimeter for CV, Viscometer, Spectrophotometer (for water analysis), pH meter, Conductivity meter, Eurotron (flue gas Analyzer), BOD & COD meters, Turbidity meter, Oil in water Analyzer for Wastewater Plant etc.
- Power Plant Environmental Emissions Management (Gaseous, Liquid & Solid waste). Act as Safety Controller / Issuer Work Permit as per KAPCO Safety Rules.
- Ensure awareness and implementation of KAPCO safety rules in maintenance activities on part of sectional team also provide permits to the maintenance section for the maintenance jobs.

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### **July 15 to Nov '16 division**

#### **MAJ INTERNATIONAL - Pakistan**

#### **Engineer water treatment**

- Deal in Water Treatment Plant including MMF, ULTRAFILTRATION, ELECTROLYSIS, RO, SWRO & BWRO, DEMIN, EDI Plants (Operation/troubleshooting/chemicals/CIP).
- Cabot Norit activated carbon application for water treatment facility, petroleum refining, food process, fertilizer plants etc.
- W.R. Grace Molecular Sieves for water and different processing areas.
- Concorde Corodex and Eflochem water treatment chemicals and Water Analysis.

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### **Nov'14 to June '15 Shift Chemist**

#### **GE Power & Water O&M Alkhairat Gas Power Plant 1200MW - Iraq**

- Manage Operation of Demineralization Water treatment plant with the capacity of 375m<sup>3</sup>/hr. Clarifier System, 552 m<sup>3</sup>/hr. UF System, and 352 m<sup>3</sup>/hr.
- IORO system, 326 m<sup>3</sup>/hr. IIO RO system and 300 m<sup>3</sup>/hr. EDI through DCS system.
- Complete Chemical Analysis of Raw Water to Demineralization Water and Fuel oil Chemistry as per ASTM. Trace metal analysis through Spectroil M (Atomic Emission Spectrophotometer)

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### **Oct '12 to Oct '14**

#### **K-Electric Bin Qasim Power Station 560 MW-Pakistan**

#### **Associate Engineer Operations**

- My main responsibilities include Managing operation Sea Water Clarifiers, Ultra filtration, Sea Water Desalination through Reverse Osmosis (SWRO), Demineralization units through DCS system, Sea water electrolysis for generation of Sodium hypochlorite through DCS system.
- Maintaining water quality of sea water, clarifier water, SWRO water and Demineralization water.
- Monitoring Lube Oil analysis. Maintaining water chemistry of HRSG, Steam & Gas Turbine etc.

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### **Jan '09 to Sep '12 Operations**

#### **Enar Petroleum Refinery Facility - Karachi**

#### **Shift Chemist Refinery**

- Experimental works independently in a refinery lab and controlling QA and QC of refinery products such as Naphtha, Kerosene and fuel oil.
- Experience in running distillation assemblies and analysis of petroleum products.
- Maintaining water chemistry of Auxiliary boilers and Water treatment Chemicals for RO, cooling towers