

Holds B. Sc. in Chemistry and M. Sc. in Inorganic Chemistry. Has over 15 years hands-on experience working as Chemist at Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 23/08/1982  
Gender : Male  
Marital Status : Married  
Residence : Beni Suef

## **EDUCATION**

- : B. Sc. in Chemistry, Beni Suef University, 2003
- : M. Sc. in Inorganic Chemistry, Helwan University, 2007

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

- : Windows, MS Office (Word, Excel, Power Point), Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Training offered by METITO on operation of water treatment plant (raw water, clarifier, demi water, waste water water system, oil water separator and sewage treatment unit) on the following laboratory instruments:
  - DR. 5000 SPECTROMETERS.
  - Atomic Absorption Spectrometer (SHIMADZU).
  - Continues Emission Monitoring System (CEMS).
  - Ion Chromatograph (DIONX).
  - Total Organic Carbon Analyzers (SHIMADZU).
  - Online Analyzers As PH, Conductivity, Sodium, Silica.
  - Turbidity Meter (WTW).
  - Laboratory Accessories.
  - Oil Analyzer Chromatograph (PRKIN - ELMAR - ARNEL).
  - Gas Analyzer Chromatograph (PRKIN - ELMAR - ARNEL).
  - UV - VIS Spectrometers (SINGLE AND DOUBLE BEAM).
- : On-shore training by Veolia Company in France office on:
  - Chlorination system.

- UF, CIP for UF system and chemical cleaning for UF system.
  - Process description, design calculation and the operation of RO system.
  - Theory of operation for production and regeneration of mixed bed.
  - Operation of waste water water system, oil water separator and sewage treatment unit.
  - Operation of condensate polisher system.
- : General English and conversation courses.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2017 till now
- Project** : South Helwan Supercritical Power Plant
- Job title** : Water Treatment Chemist
- Job Description** :
- Commissioning and start-up of water treatment unit (UF and RO system).
  - Setting of dosing rate of RO plants chemicals.
  - Cleaning, Preservation and Regeneration of UF, R.O, Mixed Bed (CIP, CEB & Regeneration).
  - Operation of Chlorination, UF, CIP for UF system and chemical cleaning for UF system.
  - Operation of RO and chemical cleaning for RO system.
  - Chlorination system (injection the chlorine to kill Micro-organisms).
  - Operation of waste water water system, oil water separator and sewage treatment unit.
  - Operation of condensate polisher system.
  - Make full analysis for water.
  - Feed treated water and chemicals to Closed Cooling.
  - Following operation of Environmental Monitoring of NOX, SO2, CO and PM10 analyzer.
  - Analysis of Water as Quality Control for Water Treatment Plant and as Quality Preservation and Acid Cleaning for Boilers.

- Dates** : From May 2011 till May 2017
- Project** : EI-Kureimat Power Plant (2x650MW)
- Job Description** :
- Laboratory Chemist & operating as Shift Chemist in field of operating, controlling and make qualitative, quantitative, spectrophotometer analysis for:
- Dematerialized system forming Demi water.
  - Waste water treatment system (treatment to waste water to back to river Nile).
  - Pre-treatment system (treatment of the Nile water).
  - Sewage water treatment system (treatment the sewage water to the Nile River).
  - Chlorination system (injection the chlorine to kill Micro-organisms).
  - Following installation and operation of sampling system and online analyzer (Silica analyzers, sodium analyzer, conductivity meters, PH meters and dissolved Oxygen analyzers) make calibration and prepare chemicals for online analyzers to control the boiler water, condensate and steam cycle quality.
  - Following operation of chemical feed system (Ammonia, Hydrazine and

Phosphate) to adjust chemicals feeding to the boiler.

- Following installation and operation for D-M-S (Data management system), which control chemical injection in boiler water, condensate and steam automatically according to the reading of online analyzers.
- Following operation of condensate polishing System and required its water analysis.
- Potable water treatment (treatment the Nile water to form potable water).
- Oil & fuel analysis.
- All chemical analysis for water quality control.

**Dates** : From Jul. 2006 till May 2011

**Project** : El-Kureimat CCPP (2x750MW)

**Job Description** :

- Commissioning and start-up of water treatment unit.
- Setting of dosing rate of water treatment chemicals.
- Feed treated water and chemicals to Closed Cooling.
- Analysis of Samples in Laboratory (Demineralization, Potable, Waste, Sewage, Raw Water, Transformer Oils and Dissolved Gas).
- Operation of Potable, Waste, Sewage, Demineralization Water Treatment Plants Systems.
- Operation of Chemical Feed System for Boilers.
- Operation of continuous emission monitoring systems (CEMS).
- Analysis of Water as Quality Control for Water Treatment Plant and as Quality Preservation and Acid Cleaning for Boilers.
- Operation on the following Laboratory Instruments:
  - DR. 5000 SPECTROMETERS.
  - Atomic Absorption Spectrometer (SHIMADZU).
  - Continues Emission Monitoring System (CEMS).
  - Ion Chromatograph (DIONX).
  - Total Organic Carbon Analyzers (SHIMADZU).
  - Online Analyzers as PH, Conductivity, Sodium, Silica.
  - Turbidity Meter (WTW).
  - Laboratory Accessories.
  - Oil Analyzer Chromatograph (PRKIN - ELMAR - ARNEL).
  - Gas Analyzer Chromatograph (PRKIN - ELMAR - ARNEL).
  - UV - VIS Spectrometers (SINGLE AND DOUBLE BEAM).