

Holds a B. Sc. in Geochemistry Engineering and has over 17 years hands-on experience working as Chemist at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 03/09/1972
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

: B. Sc. in Geochemical Engineering, Alexandria University, 1997

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Analysis of all water treatment samples and steam cycle analysis in Central Laboratory in Cairo.
- : Analysis of oils and greases in Central Laboratory in Cairo.
- : Training course by STF Co. (3 weeks) in Nubaria Power Station:
 - Pre-treatment system.
 - De-mineralization system.
 - Sewage treatment system.
 - Potable water system.
 - Waste treatment system.
 - Oil/Water separator system.
 - Chemical injection system.
 - Thermal cycle analysis system.

CHRONOLOGICAL EXPERIENCE RECORD

Employer : [EGYPTROL](http://www.egyptrol.com), SAMSUNG C&T Subcontractor
Project : QURAYYAH INDEPENDENT POWER PROJECT (QIPP) 4000MW

Qurayyah IPP (QIPP) is a large gas and fuel oil fired combined cycle power station currently under construction in Qurayyah, Saudi Arabia. The power station consists of 6 identical groups of equipment provided by Siemens, each with a net output of 654.5MW. Each block has a 2+2+1 configuration consisting of two SGT 6 -5000 F Combustion Turbines, Two Heat Recovery Steam Generators, and one SST6-4000 Steam Turbine. It is the most efficient power station of its kind in Saudi Arabia and one of the largest in the world, at 3.927MW.

- Job title** : Commissioning Chief Chemist
- Job Description** : Commissioning and follow up:
- DAF SYSTEM.
 - R.O DESALINATION PLANT 3 x 241 m3/hr.
 - DEMINERALIZATION PLANT 3 x 95 m3/hr.
 - FEED WATER TREATMENT.
 - BOILER WATER TREATMENT.
 - CLOSED COOLING WATER SYSTEM.
 - ELECTRO-CHLORINATION PLANT SYSTEM (ECP).
 - POTABLE WATER SYSTEM.
 - CHILLED WATER SYSTEM.
 - WASTE WATER TREATMENT SYSTEM.

- Project** : Nubaria Power Plant (3x750MW):
- SIEMENS gas turbine 2 modules
 - GE gas turbine 1 module
 - MITSUBISHI steam turbine 2 modules
 - ALSTOM HRSG 2 modules
 - This plant provides electric power to the Egyptian grid via 6 feeders of 500/220KV.

- Job title** : Chief Chemist
- Job Description** :
- Follow up operating the pre-treatment (sedimentation process, filtration process), this process produce 260m3/hr from clarified water and 260m3/hr from filtered water.
 - Follow up operating the potable system (filtration with activated carbon filters & chlorination), this process produce 1200 m3/day from drinkable water.
 - Follow up operating the Demineralization Plant system which done by ion exchange process, this process contains three streams each stream contain (polishing filter, cation exchanger, decarbonator, anion exchanger, mixed bed exchanger), this process produce demi water with 0.1µs/cm and PH = 6.7 & SiO2 5 ppb, this process produce 1000m3/day.
 - Follow up operating the waste treatment (clarification, filtration by gravity filters and adjust PH in final PH, range 6-9 and cond. under 2000 µs/cm and this process produce 3000 m3/day.
 - Follow up operating the sewage treatment which work by activated sludge process (aeration process, settling process, chlorination process, drier bed process for disposal sludge), this process produce 2×200m3/day.
 - Follow up operating Oil separator system (API unite, flash mixer process, Dave unite, air saturation unite), this system produce 150 m3/hr.
 - Follow up operating (R.O.) unit in the Nubaria Power Station.

- Follow up thermal cycle which contain (feed tank, boilers with drums HP, IP, LP, steam turbine) and this cycle include treated by hydrazine in feed tank as oxygen scavenger, tri sodium phosphate in drum to make buffering in PH and prevent scale formation, ammonium hydroxide in condensate water to rise PH.
- Follow up operating hydrogen production unite for cooling generator and produce 10 m3/hr from oxygen & hydrogen.
- Follow up closed cooling system for cooling several services in thermal cycle and keep this cycle at cond. under 40 $\mu\text{s}/\text{cm}$, PH 7.5-8.5 and hydrazine 2-5 ppm.
- Each process monitored by several analysis (hourly, daily, weekly, monthly).
- Follow up to address the entrance and exit to and from the water station.
- Follow up operating previous different systems during the operating Scada.

Dates : From Aug. 1999 till Jul. 2008

Project : Damanhour Power Station
(1x350MW, 3x65MW, 2x15MW steam turbines, 4x50MW gas turbines)

Job title : Shift Charge Chemist

Job Description :

- Follow up operating the pre-treatment (sedimentation process, filtration process). This process produces 260 m3/hr from clarified water and 260 m3/hr from filtered water.
- Follow up operating the potable system (filtration with activated carbon filters & chlorination). This process produces 1200 m3/day from drinkable water.
- Follow up operating the Demineralization Plant system which done by ion Ex change process. This process contains three streams each stream contain (polishing filter, cation exchanger, decarbonator, anion exchanger, mixed bed exchanger). This process produces demi. water with 0.1 $\mu\text{s}/\text{cm}$ and PH = 6.7 & SiO₂ 5 ppb. This process produces 1000 m3/day.
- Follow up operating the Waste treatment (clarification, filtration by gravity filters and adjust PH in final PH, range 6-9 and cond. under 2000 $\mu\text{s}/\text{cm}$ and this process produce 3000 m3/day.