

Holds a B. Sc. in Chemistry, a Diploma in Analytical Chemistry and a Diploma in Environmental Studies. Has over 12 years hands-on experience in preparation of site activity planning, leading the construction team till successful start-up and handover to the client construction safety practices, material take off, man power / equipment, requirement, understanding of P&ID drawing coordinate with QA/QC And pipe line installation, commissioning and start-up of Gas Turbine & Steam Turbine, under & above ground piping, pumps and valves.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/08/1983
Gender : Male
Marital Status : Married
Residence : Damanhour

EDUCATION

- : B. Sc. in Chemistry, Alexandria University, 2004
- : Diploma in Analytical Chemistry, Tanta University, 2007
- : Diploma in Environmental Studies, Alexandria University, 2008

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Training course in Abu Qir Training Center for 2 weeks in water treatment.
- : Training course for 1 month in Damanhour Training Center.
- : Training course on-shore in Nubaria Power Plant for 2 weeks by Metito Company in the following plants:
 - Demineralization Plant.
 - Pre-treatment Plant.
 - Sewage Treatment Plant.
 - Potable Water System.
 - Waste Water Treatment System.
 - Oil / Water Separator System.
 - Chemical Injection System.

- Steam Water Analysis System.
- : Training course off-shore in United Arabia Emirates for 16 days by Metito Company.
- : Training course in Civil Protection Department in EXTINGUISH for one week.
- : Training course in Analysis of Turbine & Transformer Oil Central Laboratory in Cairo.
- : OSHA General & Construction Certificate.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2014 till now
- Project** : Nubaria Combined Cycle Power Station (2250MW)
(3x750MW, SIEMENS GAS TURBINE 2 MODULES, GE GAS TURBINE ONE MODULE, MITSUBISHI STEAM 2 MODULES TURBINE & ALSTOM HEAT RECOVERY 2 MODULES, THIS PLANT PROVIDES ELECTRIC POWER TO THE EGYPTIAN GRID VIA 6 FEEDERS OF 500/220KV)
- Job title** : Senior Chemist
- Job Description** :
- Commissioning of all water treatment system as pre-treatment, demi, waste water treatment system, sewage, oil separation and potable water system.
 - Commissioning and start-up of boiler from chemical cleaning, steam blowing, inspection, normal operation, sampling system during calibration instrument.
 - Follow up of closed cooling system in start-up, operation (chemical specification).
 - Follow up of specification of turbine, transformer oil at filling and after operation.
 - Follow up of CEMS unites during tuning and performance tests of CTG.
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- Dates** : From Jul. 2014 till Nov. 2014
- Employer** : [EGYPTROL](#), SAMSUNG C&T Subcontractor
- Project** : QURAYYAH IPP in Saudi Arabia (4000MW)
- Job title** : Commissioning Chemist
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- Dates** : From Nov. 2005 till Jun. 2014
- Project** : Nubaria Combined Cycle Power Station (2250MW)
- Job title** : Chemist
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- Dates** : From Feb. 2005 till Oct. 2005
- Project** : Damanhour Power Plant
- Job title** : Chemist
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- Field of experience** :
- 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 Exchange 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 $0.1\mu\text{s/cm}$ and $\text{PH} = 6.7$ & SiO_2 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 $\mu\text{s/cm}$ 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 x 200 m³/day.
- Follow up operating Oil separator system (API unit, flash mixer process, Dave unit, air saturation unit). This system produce 150 m³/hr.
- 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 $\mu\text{s/cm}$, 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.
- Follow up chemical cleaning of boiler in module III.
- Follow up of steam blow out of piping.
- Working in continuous monitoring system (CEMS) & portable emission analyzer (land III).
- Analysis of turbines and transformers oil.
- Analysis all water, steam thermal cycle.
- Analysis potable, waste and sewage water.
- Work on different types of instruments as spectroscopy, PH meter, conductivity meter, dissolved oxygen meter, turbidity meter and oil analysis instrument.
- Calibration online instruments in sampling system, CEMS and portable emission analyzer.