100111-CHE-E-1994
Chemist

Holds a B. Sc. in Chemistry and has about 15 years hands-on experience working as Chemist in water treatment.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	13/02/1971
Marital Status	:	Married

EDUCATION

: B. Sc. in Chemistry, 1994

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: MS Word

TRAINING COURSES AND CERTIFICATIONS

: Four months basics and site specifics training covered constituting a program of concentrated study of power plant equipment and systems, theory and application in 4x350MW steam turbine Shoubra El-Kheima Power Station.

: Training in boiler water treatment in Shoubra El-Kheima Power Station.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From 2004 till now
Project	:	Shoubra El-Kheima Power Station
Job title	:	Chemist

Dates	:	From 1997 till 2004
Employer	:	Printing Company in 10th of Ramadan City
Project	:	Printing and water treatment for low pressure boiler
Job title	:	Chemist

Dates : From 1996 till 1997
Employer : Gulf of Suez Petroleum Company
Job Description : Treatment of sea water by using R.O. system.

Field of experience :

- Raw water and circulating water chlorinating system by continuous and chock dose using liquefied chlorine.
- Raw water pre-treatment system 4500 L/M, the system includes clarification by using AL2 (SO4) 3 and cationic polymer. It also includes filtration process to reach effluent turbidity 0.1 N.T.U.
- Domestic water system 250 G/M, the system includes two activated carbon filters-chlorination skid and hydro-pneumatic tank for water distribution.
- Demineralization system 900 G/M, the system produce de-materialized water with the parameters of PH 6-7 cond. 0.2 us/cm – sio2 less 10 ppb, the system consists of three identical trains each train includes activated carbon filter – strong cation exchanger de-carbonater – strong anion exchanger and mixed bed exchanger.
- Condensate polisher system 4000 G/M, there are four identical systems each for one power unit each system includes three mixed bed exchanger and three regeneration vessels for external regeneration.
- Waste water treatment system 500 G/M, this system is designed to collect and treat all industrial waste water. the treatment process includes:
  - Oil removal system for removal of free and emulsified oil.
  - Neutralization of regeneration wastes resulting from de-mineralization and condensate polisher systems.
  - Clarification by using AL2 (SO4) 3 and cation floc polymer.
  - Filtration by using gravity filters.
  - Sludge dewatering for clarification blow down.
- Chemical feed system for boiler water treatment including:
  - Hyrazine the N2H4 injection for O2 removal.
  - Ammoniun Hydroxid NH4OH injection for PH control.
- Sampling and monitoring system, the system prepares the samples from water cycle of power unit chemical feeding the system also prepare grab sample for laboratory analysis.
- Fuel oil additive system, which is designed to give additive to fuel (Mazout) to reduce the vanadium influence in furnace and reduce the corrosion in air pre-heaters.
- Chemical analysis in laboratory to monitor and control the following:
  - PH measurement.
  - Conductivity measurement.
  - Turbidity.
  - Silica concentration measurement.
  - Hydrazine residual measurement.
  - Amm. Hydroxid measurement.