

Holds a B. Sc. in Geology, 2 Diplomas and Master degree. Has 23 years' total experience in water desalination plants, wastewater treatment plants start-up, commissioning, operation, troubleshooting, maintenance and chemicals, as a project manager of an area of RO plants with different capacities or wastewater mega plants in Red sea and Sinai, Egypt. Including 13 years of experience in the Oil field as a process / lab. chemist dealing with different sources of water such as ROs plants, thermal desalination plants, STPs, Boilers, Produced water treatments and Irrigation drainage water treatment, in addition to lab analysis of water and crude oil. supporting the production facilities operation of heavy oil using EOR by water flooding and steam injection at Mukhaizna field, Oman.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 26/11/1974
Gender : Male

EDUCATION

- : B. Sc. in Geology, Sohag University, 1997
- : Post-graduation Diploma in Hydrogeology, Sohag University, 2012
- : Post-graduation Diploma in Geoinformatics (Ground water resources), Sohag University, 2014
- : Master's degree of Science in Hydrogeology: entitled "Applying a mathematical model to assess the environmental impact of desalination plants on ground water - case study of Abu Soma Bay, Safaga, Red Sea, Egypt, Sohag University, 2020

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : HES induction, H2S awareness, Gas testing, PTW training, Fire training, first aid & defensive Desert Driving at Oxy Mukhaizna - Oman.
- : Maximo 7.1. for maintenance management systems.
- : Quality Management System certificate ISO 9001, 2000.

- : Theory & practice of brackish / seawater desalination by reverse osmosis technology (MEDRC, Middle East Desalination Research Center).
- : H2S Hazards and Control.
- : Basic Fire Fighting.
- : First Aid.
- : Supervising Safety.
- : Laboratory Information Management Systems (LIMS).
- : Journey Management.
- : Gas Testing, Multi gas detector.
- : Integrated system of safe work permit (ISSOW).
- : Hazards communication (HAZCOM).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2021 till now
- Employer** : Veolia Water Technologies (VWT) (Egypt)
- Project** : Bahr El Baqar wastewater treatment plant 5.6 Million M3/Day
- Job title** : Project Manager
- Job Description** :
- O&M of wastewater treatment facilities such as clarifiers, Disc filters, pumps, Sludge dewatering facilities such as centrifuge decanters, belt press, filter press and sludge drying.
 - Follow up chemicals dosing calculations, performance evaluation, and take the needful action. Such as Alum, ferric chloride coagulants, Activated carbon, chlorine gas and polymers.
 - Follow up plants' water quality in different streams; insure compliance with plant operation design.
 - Follow up chemicals handling, safety, and take the needful action.
 - Operation management of water laboratories, chemistry and microbiology analysis. Such as COD, BOD, TSS, Sludge tests, Turbidity, Total Iron, residual Aluminum, Jar test, chlorine breakpoint, Coliform and E. coli. Bacteria, etc.
 - Calibrations of different Laboratory equipment.
 - Carry out commissioning, start-up, operation, maintenance and troubleshooting of lab equipments.
 - Provide technical support to clients, support sales of chemicals, equipment and spare parts of VWT products and services.
 - Training and coaching of lab technicians, operators and plant technicians.
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- Dates** : From Dec. 2020 till Jul. 2021
- Employer** : Hassan Allam Construction HAC (Egypt)
- Project** : Al Mahsama wastewater treatment plant Agricultural drainage water treatment and reuse 1 Million M3/Day
- Job title** : Process & Laboratory Chemist
- Job Description** :
- Operation of water laboratories, chemistry and microbiology analysis. Such as COD, BOD, TSS, Turbidity, Total Iron, residual Aluminum, Jar test, chlorine breakpoint, Coliform and E. coli. Bacteria, etc.

- Calibrations of different Laboratory equipment.
- Carry out maintenance and troubleshooting of lab equipments.
- Follow up chemicals dosing calculations, performance evaluation, and take the needful action. Such as Alum, ferric chloride coagulants, Activated carbon, chlorine gas and polymers.
- Operation and monitoring of wastewater treatment facilities such as clarifiers, Disc filters, pumps and calculation of efficiencies.
- Follow up plants' water quality in different streams; insure compliance with plant operation design.
- Follow up chemicals handling, safety, and take the needful action.
- Follow up operation of plant parts within their standard operation guides and specs. And Applying the PM.
- Follow up Receiving, commissioning and start-up of new equipment. Installation, calibration and maintenance.
- Training and coaching of lab technicians, operators and plant technicians.

Dates	:	From Mar. 2009 till Dec. 2020
Employer	:	Occidental Mukhaizna, Oman (OXY)
Project	:	Mukhaizna heavy oil field – Oman
Job title	:	Laboratory & Process Chemist
Job Description	:	<ul style="list-style-type: none"> • Operation of water and crude oil laboratories, crude oil quality tests, gas analysis, lube oil, water geochemical and microbiological analysis. • Dealing and operation of modern oil and water laboratory instruments: GC, IC, ICP, TOC, XRF/XRD, Spectrophotometers, Centrifuges, TVP, TAN, Karl fischer water content, sulfur analyzer and Salt in crude oil. • Crude oil field basic tests analysis (BS&W, Salt, RVP, Water Content, Density, Viscosity, sulfur, TAN, Flash point and Asphaltins). • Lube oil quality analysis (Viscosity, water content by KF, TAN, heavy metals by ICP, and suspended particle counts). • Water analysis full geochemistry and microbiology. • Soil and scale analysis to identify their composition. By analysis and by XRF/XRD. • Gas sampling and analysis by GC (Natural gas, flare gas and others). • Field and onsite tests for fluids include: DO, H₂S, CO₂, Ammonia, TKN, etc. • Record and follow up the Laboratory data and other activities in Laboratory Information Management System (LIMS) with coordination of the IT department. • Using MAXIMO software for purchasing laboratory chemicals, glassware, budget items and non-budget items in the lab and processes. • Perform the calibration of different Laboratory analytical and equipment. • Carry out maintenance and troubleshooting of lab instruments and equipment. • Operation, maintenance and monitoring of water treatments and crude oil chemicals. • Operation and monitoring of water quality for industrial and produced water treatment facilities such as ROs, MVCs, ion exchangers IGFs, WSF, MMFs, OTSG, HRSG, Oil/ water API separation facilities, degassers, de aerators and other related facilities.

- Follow up plants' water quality in different streams; ensure compliance with plant operation design.
- Follow up chemicals dosing calculations, performance evaluation, and take the needful action.
- Design and Apply the chemical cleaning programs for RO plants, Boilers, Heat exchangers etc.
- Contribute in acid jobs, wells stimulations and drilling rigs lab requirements.
- Prepare and follow up equipment's PM programs.
- Follow up operation of plant parts within their standard operation guides and specs.
- Follow up Receiving, commissioning Prepare plant operation philosophy, development and implementation of work strategies. And startup of new equipment. Installation, calibration and maintenance.
- Prepare operation and work instructions for plants equipment's O&M.
- Assist the startup and commissioning teams in the plant startup process.
- Established an Inventory system for plants instruments, consumable chemicals and other materials.
- Contributed in establishing QA/QC system for Testing, maintaining and calibrating the plants products.
- Preparation of KPI reports for the plant operation and lab activities.
- Tasked with planning, promoting and organizing training activities for plant operators and technicians.
- Define safe work for equipment and individuals.
- Adhere to Integrated systems of Safe works permits (ISSOW), chemicals SDS, firefighting, defensive driving, HES awareness, H2S hazards etc.
- Apply risk management assessments and emergency plans.
- Develop the plant waste control system for solid, liquid, and used parts.
- Assistant in preparation of budgets, cost control plans.
- Training of lab junior chemists, lab technicians, operators and plant technicians.

Dates	:	From May 2008 till Feb. 2009
Employer	:	SPIE Oil & Gas Services Oman
Project	:	Mukhaizna heavy oil field – Oman
Job title	:	Laboratory & Process Chemist
Job Description	:	<ul style="list-style-type: none"> • Operation of water and crude oil laboratories, crude oil quality tests, gas analysis, lube oil, water geochemical and microbiological analysis. • Water analysis full geochemistry and microbiology. • Soil and scale analysis to identify their composition. By analysis and by XRF/XRD. • Gas sampling and analysis by GC. (Natural gas, flare gas and others). • Field and onsite tests for fluids include: DO, H2S, CO2, Ammonia, TKN, etc. • Record and follow up the Laboratory data and other activities in Laboratory Information Management System (LIMS) with coordination of the IT department. • Using MAXIMO software for purchasing laboratory chemicals, glassware, budget items and non-budget items in the lab and processes. • Perform the calibration of different Laboratory analytical and equipment.

- Carry out maintenance and troubleshooting of lab instruments and equipment.
- Operation, maintenance and monitoring of water treatments and crude oil chemicals.
- Operation and monitoring of water quality for industrial and produced water treatment facilities such as ROs, MVCs, ion exchangers IGFs, WSF, MMFs, OTSG, HRSG, Oil/ water API separation facilities, degassers, de aerators and other related facilities.
- Follow up plants' water quality in different streams; ensure compliance with plant operation design.
- Follow up chemicals dosing calculations, performance evaluation, and take the needful action.
- Design and Apply the chemical cleaning programs for RO plants, Boilers, Heat exchangers etc.
- Contribute in acid jobs, wells stimulations and drilling rigs lab requirements.
- Prepare and follow up equipment's PM programs.
- Follow up operation of plant parts within their standard operation guides and specs.
- Follow up Receiving, commissioning Prepare plant operation philosophy, development and implementation of work strategies. And start-up of new equipment. Installation, calibration and maintenance.
- Prepare operation and work instructions for plants equipment's O&M.
- Assist the startup and commissioning teams in the plant startup process.
- Established an Inventory system for plants instruments, consumable chemicals and other materials.
- Define safe work for equipment and individuals.
- Adhere to Integrated systems of Safe works permits (ISSOW), chemicals SDS, firefighting, defensive driving, HES awareness, H2S hazards etc.
- Apply risk management assessments and emergency plans.
- Develop the plant waste control system for solid, liquid, and used parts.
- Assistant in preparation of budgets, cost control plans.
- Training of lab junior chemists, lab technicians, operators and plant technicians.

Dates	:	From 2001 till 2008
Employer	:	Ridgewood Egypt for infrastructure projects
Project	:	Hurghada area and South Hurghada area
Job title	:	Senior Plants Supervisor
Job Description	:	<ul style="list-style-type: none"> • Responsible for the overall performance of the operation and maintenance functions of desalination plants, this includes supervisory of operations, maintenance, procurement, administration, and technical support, planning and cost control. • Operation and maintenance of wells, sea water open intake pumps. • Conduct chemical cleaning for RO plants when needed. • Contributed in the commission and startup of many new projects including 2 mega desalination units 2X1500 M3/d capacity, in Hurghada area working on different water sources. • Highly contributed in the preparation and acquisition of ISO 9001-2000, including ensuring conformity of procedures with standards, reviewing

company objectives, KPI's, Operation & Maintenance functions & procedures, workflow, authorization & responsibility level and forms, etc. " ISO certificate was awarded in July 2006".

- Prepare operation and work instructions for plants equipment's O&M in coordination with other team's like maintenance and installation and technical support teams.
- Assistance to other teams in new projects installation and startup process.
- Established an Inventory system for plants instruments, consumable chemicals and other materials.
- Contributed in establishing QA/QC system for Testing, maintaining and calibrating the plants products.
- Preparation of KPI reports for the plant operation.
- Tasked with planning, promoting organizing training activities and appraisal for plant operators and technicians.
- Identifying, evaluating and notifying non-conformance in the water geochemistry and thereby changing inspection and test status of the samples based on the test results and identifying evaluation.
- Define safe work for equipment and individuals.
- Apply risk management and emergency plans.
- Develop the plant waste control system for solid, liquid, and used parts.
- Preparation of budgets, cost control plans and forecasts.
- Training of process chemists, operators and plant technicians.
- Projects list:
 - Reemyvera central plant (Hurghada area) 8x500 M3/day containerized units, open sea water intake.
 - Meridian Makadi bay plant (Hurghada area) 3x500 M3/day unit's groundwater wells intake.
 - Cataract Marsa Alam (South Hurghada area) 4x500 M3/day units, groundwater wells intake.
 - Meridian Makadi bay plant (Hurghada area) extension 2005 (Hurghada area) 1x1500 M3/day unit, groundwater wells intake.
 - Golden Five (Hurghada area) 3x500M3/day units, open sea water intake.
 - Beir Asal- AL Quseir (South Hurghada area) 2x500 M3/day units, groundwater wells intake.
 - Nefertari - Safaga (South Hurghada area) 2x500 M3/day units, groundwater wells intake.
 - Hilton long beach (Hurghada area) 2x500M3/day units, groundwater wells intake.
 - Seagull (Hurghada) 2x500 M3/day units, groundwater wells intake.
 - Verdi (Hurghada area) 2x500 M3/day units, groundwater wells intake.
 - Reemyvera central plant extension 2005 (Hurghada area) 1x1500 M3/day unit, open sea water intake.

Dates : From 1999 till 2001
Employer : Water Technologies and Contracting Company (WATCO) – Egypt
Project : El-Sokhna, Sharm Sheikh and Hurghada plants
Job title : Process Chemist

- Job Description** :
- Operation of all equipment associated with desalination plants at different projects at red sea and south Sinai areas.
 - Follow up quality control by conducting chemical and physical tests of the overall stages of the desalination plant.
 - Projects list:
 - El Aein bay plant (El Sokhna area) 2x500 M3/day unit's groundwater wells intake.
 - Hilton Hurghada 500 M3/day units, groundwater wells intake.
 - Royal Azur - south Makadi Bay (Hurghada area) 2x500 M3/day units, groundwater wells intake.
 - Hilton waterfalls- Sharm El Sheikh, 500 M3/day, open sea water intake.