

Job Description

Position	Water Quality Expert
Objectives:	<p>Expertise in drinking water quality assessment, environmental monitoring, and regulatory compliance to ensure the safety and sustainability of water resources. To contribute to innovative solutions and policies that enhance water management systems, protect ecosystems, and support public health in a challenging and dynamic environment.</p> <p>Operational Water Quality expert</p> <p>Support the O&M team in Operational Activities ,prepare and implement long term strategy to enhance water quality, Give Expert insight on water quality complains , Review process & Procedures currently enforced within O&M , support Field team on day to day work , review and correct water quality results in all Governorates ,Develop related policies and procedures to ensure that all water quality activities are in compliance with applicable laws; regulations; policies, procedures, and quality assurance standards...etc.</p>
Background:	<p>As part of assuring the continuous supply of safe, acceptable, and sufficient water to the community, water suppliers in Oman are required to develop and implement a Water Quality Plan. is subject to this obligation.</p> <p>An experienced water quality expert is to be engaged to provide drinking water quality plans, and then to facilitate the development and implementation of an efficient and technically rigorous Water Quality Manual. The water supply infrastructure includes all water system facilities from catchment to consumer point, including:</p> <ul style="list-style-type: none"> • Perform field sampling, laboratory testing, and data analysis to evaluate water quality. • Water investigation in occurrence of water disturbance in the quality and providing full report before, during & after what caused the issue and provide solutions that aligns with local water quality policies and regulations. • Testing water quality assets in Oman and examine the quality. • Prepare detailed reports and presentations on findings, including risk assessments and improvement strategies. • Conduct comprehensive assessments and analyses of water quality to identify contaminants and ensure safety standards are met. • Stay updated on emerging technologies and best practices in water quality management • Identify and investigate sources of water contamination or pollution, recommending actionable solutions.
Deliverables:	<p>Deliverables:</p> <ul style="list-style-type: none"> • Development of the WQP, for all regions of Oman <ul style="list-style-type: none"> ○ WQP Manuals. ○ Process flow diagrams. ○ Risk assessment and process control summary tables. • Facilitate the development of WQPs Oman <ul style="list-style-type: none"> ○ WQP Manuals. ○ Process flow diagrams. ○ Risk assessment tables. ○ Supporting procedures, tables, and diagrams.

Tasks and Actions

Tasks and actions

3. WQP facilitation:

- a. Assemble the WQP Team and assign roles and responsibilities. These roles and responsibilities will be formally assigned to each department as part of the WQP.
- b. Develop verified system descriptions and process flow diagrams. Conduct field inspections by visiting all of the Oman assets. All site facilities will be visited to collect all the required information and data and to conduct sanitary inspections of infrastructure to assess condition and verify the information. This will cover all seawater and brackish water source waters, well recharge areas, treatment plants, and storage reservoirs, and representative samples of customer connections. Allow up to be determined days of field work.
- c. Summarise relevant aspects of historical water quality data, such as identifying exceedances of guideline values, or unknowns for parameters not tested.
- d. Facilitate a workshop to identify drinking water quality hazards and hazardous events and conduct risk assessments with the WSP Team in the form of tabular summaries. The assessment will consider both quality and quantity, in line with the 2025 WQP guidance from WHO. Allow up to be determined days of workshops with the WQP Team.
- e. Identify existing control measures, and note improvements required to reduce risks to acceptable levels if there are shortfalls, and document the validation of the process controls.
- f. Summarize operational monitoring strategies for control measures, including setting target criteria and critical limits. This will be set out as process control (monitoring, target, limit, corrective action) in simple format for operators.
- g. Develop the verification monitoring program for water quality, customer satisfaction, and regulatory compliance.
- h. Support development of asset and infrastructure monitoring and management and Standard Operational Procedures (SOPs).
- i. for routine and incident situations. The SOPs and Emergency Procedures will be prepared by the person responsible for each facility under NSC's guidance.
- j. Develop supporting programs, such as training, education, asset management, inspection and preventive maintenance of processes and equipment (including calibration of monitoring devices), and material and chemical selection and QA.
- k. Develop the continuous improvement and revision process.

4. Technical support:

- a. Produce the WQP manual and supporting documents to a standard suitable for submission to the public government regulator and auditing department. The WQP manual will be constructed in a simple, straightforward context to ensure that it will be easily implemented by the WQP team.
- b. Provide a presentation and explanation to the required departments, such as the CEO, Regulator, Nama Group holding company, and so on.

Kindly Note: -

The duration of the contract will be 21 Months.