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Enhancing the Instrumentation and Automation Levels of Water Transmission System in Muscat, Dakhiliya, Batina & Dhahira Governorates

Brief Scope of Work:

The NWS water assets comprises of the following transmission and distribution systems. NWS vision to have highest level of automations in the transmission network with an aim to minimize the operation expenses. This is achieved partially by operating many of the pumping stations in Auto-Mode. However, further enhancements required to the instrumentation to achieve the desired level of automation. This will be a Framework (Call-Off Contract) contract. Separate work orders shall be issued as and when required within the overall project period and overall budget.

- Supply and implementation of new FCVs (Flow Control Valves) required for station automation
- Enhancements to existing FCVs to meet the automation requirements
- Supply and implementation of new MoVs (Motorized Valves) required for station automation
- Enhancements to existing MoVs to meet the automation requirements
- Electrical Instrumentations required for the auto-control of Pumps
- Implementation/Enhancements to the Flow Meters
- Implementation/Enhancements to the Flow Switches to protect the pumps
- Implementation/Enhancements to the Level Transmitters for the reservoirs
- UPS systems for the PLCs and Instruments
- Cabling and interconnections
- Integrating existing vibration and temperature sensors to the SCADA
- Implementation/Enhancements to the PLCs
- Implementation/Enhancements to the pressure transmitters and pressure switches
- Solar backup power systems
- Other miscellaneous jobs

Other Requirements in the scope

- Training and Knowledge Transfer to NWS Team
- Warrantees and Maintenance Support