



Client: Ministry of Works
Location: Bouri PS, Bahrain
Ref. No.: BAH/2005/03/008

008 – REPLACEMENT OF ELECTRICAL CONTROL PANELS AND FLOW METERS

Background

Treated Sewage Effluent Network (TSE) consists of 13 Reservoirs and one Solar Energy Operated Treated Line for irrigation to road side plants and public parks across the Kingdom, A Project was Launched in 2016 to upgrade the Pump Station Control Panel, construction of new flow meter Chamber for DN 800 Flow Meter and other Instrumentation.

The components to be designed and install includes New Electrical Control Panels for 4 X 50 Kw Pumps, Pressure Transmitters, Electromagnetic Flow Meters (DN350 and DN800), Rehabilitation of Pipe Works etc...Additionally it includes integration of field instruments to the Main SCADA Server (Hub).

Case Study

A detailed study was carried out by the Electrical and Mechanical Departments and design and drawings were prepared and discussed in detail. An intelligent MCC, withdrawable type based on pressure contacts, was designed and manufactured at Cellmec's Bahrain facility. Process control along with the data transfer capability to the main server was also developed in-house. The project was completed within the time schedule to the entire satisfaction of the Ministry of Work Engineers and additionally the Cellmec design for control system approved for future projects.





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