

Common Seawater Supply Project (CSSP) – Demonstration Facility

Solution Partner : Siemens
Customer : TISS - Abu Dhabi. UAE.
Segment : Electromechanical

Short description of the solution :
Sea water treatment

Requirements of the customer :

- Full control system and SCADA station for the water treatment plant
- Power and automation system for all the facility

Challenges / Visions / needs

- Supply and setup of instruments, calibration, scaling and commissioning on site.
- Calibration, commissioning of sophisticated flow control valves (FCV) and motorized ball valves (MBV), calibration of analog input set point and analog output feedback to PLC.
- Control of working hours of Main generators in Duty / Standby mode
- Analysis of PH, conductivity and Turbidity readings at each process stage to define the efficiency of the system.
- Supply and commissioning of PFC power factor correction cabinet with 3 steps.
- Supply and commissioning of VFD found at sea cabinet for Raw Water Pump RWP to control the main water flow supplied to the system , including pump motor overheat protection .
- Providing support to mechanical team in eliminating leakage in some critical locations.
- Adjustment of all float switches to control the min/max level in each tank.



Solution
Partner

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Implementation by the solution partner :

- Deliver a full control , power and automation system for all the facility
- implementing control functions and suggesting operation philosophy
- Continuous Support and availability , guaranteed know-how to be provided by the SP
- Product Quality, full integration, easy to configure

Benefits for the customer :

- Siemens automation system used was based on Simatic S7-1500 and TIA (Totally Integrated Automation)
- Individual controllers were used, where all the system was controlled using one main PLC.
- Easy operation/maintenance
- System is fully automated and doesn't require any personal intervention
- Maintenance cost is reduced by using highest product quality , fault detection and event logging that allows to trace problems causes



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