



## SULFUR PURIFICATION SYSTEM

CLIENT - Al-Mishraq  
LOCATION - Mosul, Iraq

### DESCRIPTION

Matrix PDM Engineering partnered with CTI Consulting and Al Hawarth to deliver and install a \$78.6 million sulfur purification system. The scope was turnkey delivery, including a submerged combustion distillation, filtration, recovery unit, and CO<sub>2</sub> generation plant with a process automation system.

Designed to allow the capacity to be doubled to one million tpy of sulfur, the facility was pre-fabricated and assembled off-site in Tulsa, OK, on 56 modules of 3.5m x 3.5m x 13.4m. 90% of the piping was pre-fabricated and shop fit.

QA/QC checks were completed in the U.S. before export to Iraq. The final in-shop evaluation included a module-to-module assembly, complete P&ID checks, x-ray, and hydro testing, instrument and electrical checks, factory acceptance testing of the DCS. Construction

personnel were trained on module design and fabrication techniques in the United States to install and erect in the country accurately.

The plant was standardized on a Rockwell PlantPAx platform and standard software libraries. The system includes hot-backup redundancy in controllers, networks, and HMI and historian servers. A BMS was designed and supplied using Rockwell GuardLogix safety I/O.

### PRINCIPAL FEATURES

- Turnkey delivery and installation
- Multi-discipline engineering and design
- Procurement
- Project execution management
- Fabrication

### FOR MORE INFORMATION:

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