

### Ticona – Medium-voltage Switchgear System

**LOCATION:** Kelsterbach, Germany

**SERVICES:** Project management, Quality assurance, Pre-project planning and tendering, Basic-engineering and pre-engineering, Detail engineering, Installation supervision

**INDUSTRY BRANCH/TYPE OF PLANT:** Transmission & Distribution, Chemical plants

**CLIENT:** Ticona GmbH

#### Project Description

Ticona GmbH, a company in the Celanese Group, is a market leader in the area of Hostaform and a supplier to key technological markets. Safety and availability of the medium voltage switchgear system installed in the 1960s at the Kelsterbach site was to be restored to the latest state of the art in order to guarantee reliable energy distribution. INP International Projects won the order to renew the medium voltage switchgear.

The renewal was prepared in close cooperation with the company:

- Variant arrived at following inspection
- Cost estimate of the variants (material and installation) for budgeting and the decision

Following the decision on principles, these steps were taken:

- Preparing the documents of the call for tenders including technical specification
- Producing detailed drawings for reinstallation of the system as well as a setup diagram in total, sections, supporting structures, etc.
- Project planning and support
- Writing the documents of the call for tenders
- Writing the specifications and technical specifications for the switchgear, signaling systems and integration into existing control systems
- Support for the call for tender and placement process
- Checking the proposed solutions
- Support in order placement negotiations
- Installation supervision and commissioning

#### POINTS OF CONTACT



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## INP Reference

- Consulting
- Cost estimate for budget application
- Basic and detail engineering
- Planning, implementation and support for the call for tender and placement process
- Project monitoring during implementation

### DATA

- Reference voltage: 12kV
- Operating voltage: 6kV
- Short-time withstand current: 31.5kA
- Busbar reference current: 2000A
- Two supply, transformer and motor output bays each as well as one coupling, startup, measurement and spare bay each