

Project title: New Sulfuric Acid Plant Project, 800 MTD

Date:

September 1983 – April 1985 (BE)

August 1985 – August 1987 (DE)

Scope:

Extended Basic Engineering in accordance with international standards and practices and general, accepted engineering and project management principles, preliminary detail engineering to establish the scope of material required, the construction work bill of quantities and equipment and material price consultancy to back up the class II cost estimate.

Detail Engineering in accordance with international standards and practices and general, accepted engineering and project management principles, Procurement Assistance in the purchase of all required equipment and material, inside and outside of Venezuela, detail schedule preparation and Construction Assistance, construction strategy, contractor selection, bidding process evaluation.

The plant was designed taking into consideration the maximization of national content; to achieve this goal, the engineering team customized some equipment to allow national industry to become competitive and able to manufacture in Venezuela.

Project Description:

The design of a grass root New Sulfuric Acid Plant with a capacity to produce 800 MTD of sulfuric acid 98% concentration and 80 MTD of Oleum 106% equivalent, using solid sulfur from petroleum refining as raw material, plus an increase in storage capacity adding three sulfuric acid storage tanks of 1.200 cubic meters each, and two oleum storage tanks of 300 cubic meters each.

Location:

Carretera Nacional Morón – Coro, Juan José Mora Municipality, Carabobo State, Venezuela

Client:

PETROQUÍMICA DE VENEZUELA, S.A. (PEQUIVEN).

Petroquímica de Venezuela S.A. (Pequiven) is a state owned Venezuelan company, associated with the Ministry of Popular Power for Petroleum and Mining, the shares of which are the exclusive property of the Bolivarian Republic of Venezuela.

The company promotes and develops petrochemical activities that are carried out along the North - Coastal Axis, specifically in the states of Zulia, Carabobo and Anzoátegui, where nitrogen and phosphate fertilizers, olefins and plastics are produced, as well as chemical products destined to satisfy the requirements for these items on the national market; to guarantee food sovereignty and industrial and technological development.

Challenges:

(BE)

Carrying out the studies required to maximize national content. To achieve the goal, the engineering team customized some equipment specifications to allow national industry to be competitive and manufacture in Venezuela.

(DE)

Development of the engineering and workshop plans for equipment with specifications that were adjusted to achieve a maximization of national manufacturing participation.

Development of a 3D three-dimensional model of the plant to be used during the development of detailed engineering for optimization of the design, interference verification, constructability study, construction planning and subsequent support for the construction work.

Vepica Solutions:

(BE)

Participation in the conceptual and early engineering development in the Krebs office in France, evaluating the specifications of equipment to be used, and how to adjust them to facilitate and maximize manufacturing in Venezuela and approval of the conceptual engineering together with the Client

(DE)

Conducting meetings with the association of goods manufacturers, to assess their capabilities and confirm readiness to meet specifications and maximize national participation.

Acquisition of the most advanced materials to create process plant models in accordance with current global regulations.