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industrial

SUMMARY OF EXPERIENCE IN
TA, PTA & PIA PROJECTS



Intecsa Ingeniería Industrial (Intecsa) has been developing projects related to the Polyester market in the last 20 years, from the development of conceptual design and basic engineering to the execution of LSTK EPC Projects including engineering, procurement, construction and start-up, from Plants with small capacities up to 500.000 tpy of production.

The experience of Intecsa in the Polyester market includes execution of projects for the production of phthalic anhydride (PA), terephthalic acid (TA), purified terephthalic acid (PTA), isophthalic acid (IA), purified isophthalic acid (PIA), meta-xylene (raw material for the production of isophthalic acid) and para-xylene (raw material for the production of terephthalic acid), as well as a project for the conversion of a PTA process plant into a PIA process plant. Below are briefly described some of the references of Intecsa in PTA and PIA Projects:

Terephthalic Acid and Purified Terephthalic Acid Project – Phase 1

- **Client:** Interquisa
- **Year of completion:** 1996
- **Location:** Spain
- **Scope:** Engineering, procurement management and construction supervision of the Purified Terephthalic Acid unit 3 (PTA-3) with a production capacity of 150.000 tpy, and engineering, procurement and construction activities for the re-starting of the Terephthalic Acid unit 1 (TA-1) with a production capacity of 90.000 tpy.



Terephthalic Acid and Purified Terephthalic Acid Project – Phase 2

- **Client:** Interquisa
- **Year of completion:** 2003
- **Location:** Spain
- **Scope:** New plant of terephthalic acid (TA-4) and purified terephthalic acid (PTA-3) with 325.000 tpy capacity; including offsites and extension of the existing sewage plant. Main equipment: 12 Mw process air compressor (TA-3), Centrifugal machinery (PTA-4), Reactors (TA-3 and PTA-4), Crystallizers (TA-3 and PTA-4), Silos (TA-3 and PTA-4), Dryers (TA-3 and PTA-4), Tank farm (off-sites), Hot-oil (off-sites), Waste water treatment plant extension. Steam generation conventional unit 30 t/h @ 17 kg/cm².



Terephthalic Acid and Purified Terephthalic Acid Project

- **Client:** Interquisa
- **Year of completion:** 2003
- **Location:** Canada
- **Scope:** Design, build and construct project of a new plant of terephthalic acid (TA) and purified terephthalic acid (PTA) with 500.000 tpy capacity; including auxiliary services, specially a waste water treatment plant and a catalytic oxidizer.



Purified Isophthalic Acid Project

- **Client:** Cepsa Quimica-TAKAMUL
- **Year of completion:** 2015
- **Location:** Oman
- **Scope:** basic engineering and process design package of a greenfield Purified Isophthalic Acid Plant with a production capacity of 100.000 tpy.

