



# TECHIND SRL

*ENGINEERING & CONTRACTING*

## *COMPANY PROFILE*



Rio Magdalena Water and Residuals treatment plant in Termoflores Power Plant– Barranquilla - Colombia

### *15 years of innovation*

Techind srl began his activities in the nineties with the combination of the experiences gained by its members in mechanical engineering, oil & gas, industrial plants and energy.

Techind srl has the ability to address the broad spectrum of issues relating to the design and construction. The organization, the size of the company and the experience gained over the years, make it an ideal partner for the management of complex projects.

Whether in integrated design, and in project and construction management, Techind provides attentive service to the most articulated needs of the client.

Techind develops the engineering for Italian and foreign markets in its offices in Rome and carries out construction activities through partnerships with qualified workshops.

## Activities

Techind srl provides engineering services for the design and construction of integrated engineering systems. To meet the increasing technological complexity of the systems, the company use a multi-disciplinary approach that weaves different skills: the services offered range from engineering development of the project to assess its economic, financial and environmental.

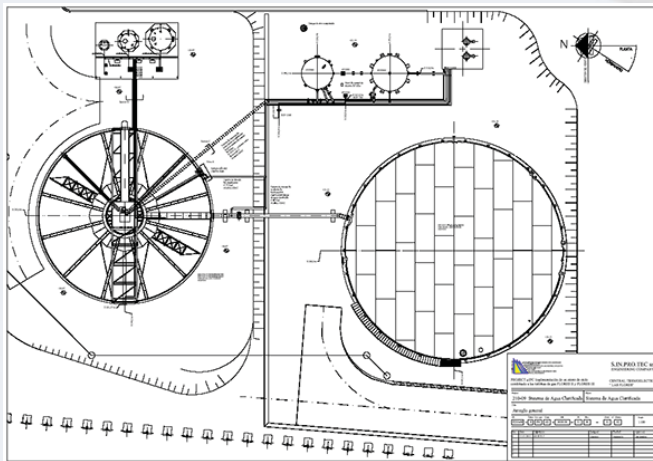
Over the years, our teams achieved a deep knowledge in administrative and project approval procedures, with several cooperation companies and research institutions involved in technological innovation and environmental issues, with the aim of offering solutions that meet the most different needs.

Furthermore Techind develops the make-good and revamping of existing plants , performing field surveys and outlining the most appropriate solutions to achieve the required performance.

<b>INDUSTRIAL CONSTRUCTION</b> <ul style="list-style-type: none"><li>· Cooling towers</li><li>· Water treatment plant</li><li>· Residuals and muds treatment plant</li><li>· Liquids/fuels steel sotorage tanks</li><li>· Pipelines</li><li>· Pipe racks</li></ul>	<b>ENGINEERING</b> <ul style="list-style-type: none"><li>· Sell structures</li><li>· Concrete structures</li><li>· Wooden structures</li><li>· Special materials and glass structures</li><li>· Dynamic and vibrational analyses</li><li>· Static analysis of existing structures</li><li>· Static tests</li></ul>
<b>OIL &amp; GAS</b> <ul style="list-style-type: none"><li>· Gas filtration for fuel gas</li><li>· Chemicals dosing system</li><li>· Nitrogen</li><li>· Hydarulic Lube oil consolles</li><li>· Slug catchers</li><li>· Shell &amp; tube heat exchangers</li><li>· Air finned heat exchangers</li><li>· Compression units fos gas lift service</li><li>· Pumping units for water lift service</li><li>· Hot oil system</li></ul>	<b>PROJECT MANAGEMENT</b> <ul style="list-style-type: none"><li>· Regulatory framework analysis</li><li>· Technical and economic evaluation</li><li>· Advice and support for requesting permissions</li><li>· Technical drawings check</li><li>· Economic and financial planning</li><li>· Support to identify contractors and suppliers</li><li>· Technical consulting</li></ul>
<b>STEEL CONSTRUCION</b> <ul style="list-style-type: none"><li>· Bridges</li><li>· Trusses for aerial power lines</li><li>· Fire fighting ladders</li><li>· Roofs</li><li>· Sheds</li></ul>	<b>CONSTRUCTION MANAGEMENT</b> <ul style="list-style-type: none"><li>· Project assessment, monitoring and supervision</li><li>· Safety on site</li><li>· construction management and construction assistance</li><li>· Assistance and management during start-up</li></ul>
<b>MAKE-GOOD</b> <ul style="list-style-type: none"><li>· Issues surveys, measurements and analysis;</li><li>· Operational guideline</li><li>· technical feasibility study and cost analysis</li><li>· Cost/benefit analysis of alternative solutions</li></ul>	<b>DESIGN</b> <ul style="list-style-type: none"><li>· Design for offer and for construction</li><li>· Flux diagrams and P&amp;ID</li><li>· Tender documents and technical specifications, price list, material list</li></ul>



## ENGINEERING



### Complete Water treatment system:

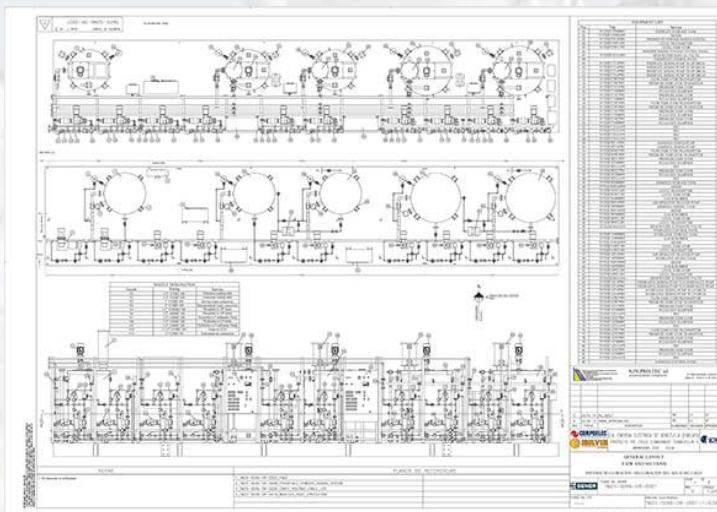
(Termoflores Power Plant– Barranquilla – Colombia)

- 3000USgpm (680m<sup>3</sup>/hr) Solid contact clarifier
- chemical injection units (3)
- 4000m<sup>3</sup> storage tank
- residuals thickener unit

### Waste Water Treatment System

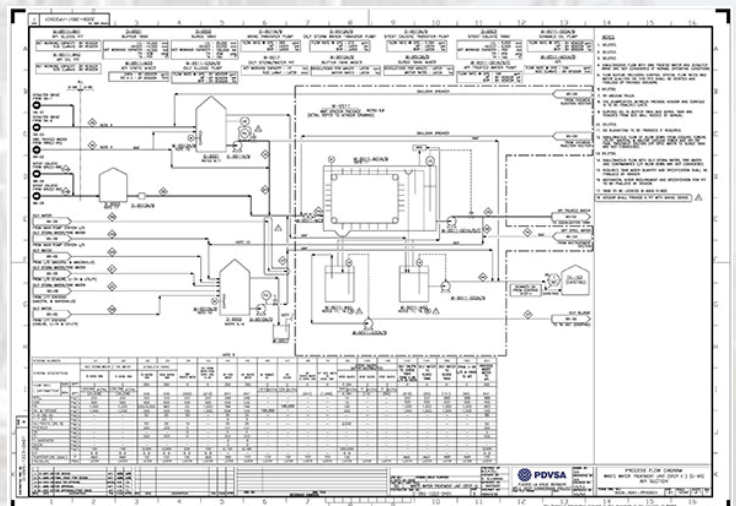
( Refineria de Puerto La Cruz - Venezuela)

- Primary Treatment API Closed, oil skimmer and sludge collector - Design flowrate 1050 USgpm
- Secondary Treatment DAF Closed, scum skimmer and sludge collector - Design flowrate 2700 USgpm
- Biological Treatment Basin + Clarifier - Design flowrate 2700 USgpm
- Sludge Treatment Thickner
- Final Treatment Multimedia filters, AC Filters, RO Modules, etc.
- Chemical Injection Units Emulsion Breaker, Polimer, NaOH, Coagulant, Cl<sub>2</sub>, Dechlorination, H<sub>2</sub>SO<sub>4</sub>
- Lift Stations



### Chemical injection system

API basin oil separator, closed type with oil skimmer and sludge collector. Design flowrate 1050 USgpm



## CONSTRUCTION

- Construction management
- Construction and assembling supervision
- Contract administration
- Planning
- Warehouse and materials management
- Inspection and tests
- Commissioning and Start-up



***Complete Water treatment system with 3000USgpm (680m<sup>3</sup>/hr) Solid contact clarifier, chemical injection units (3), 4000m<sup>3</sup> storage tank, residuals thickener unit.***

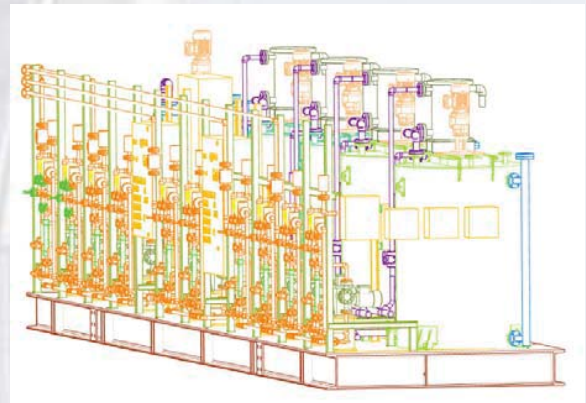


Solid contact clarifier assebling





Chemical Injection System  
Inelectra - Termozulia - Venezuela



Well water filtration system  
PDVSA - Venezuela

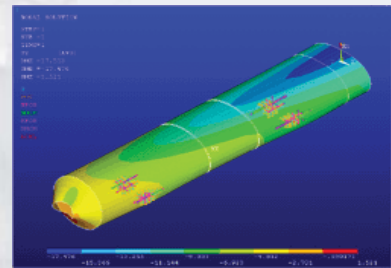


Fuel gas filtration system  
Enelven - Venezuela

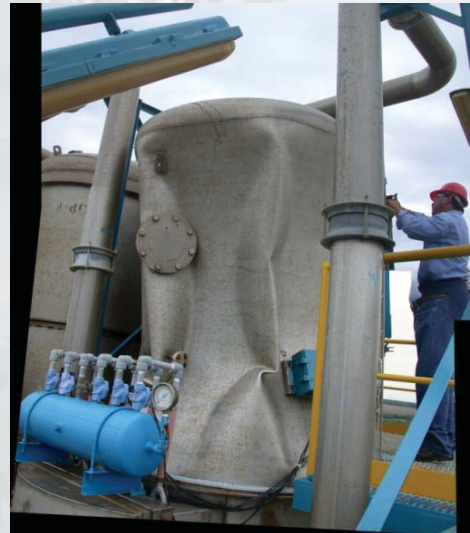




Dryer inspection repair and test  
Propilven - Venezuela

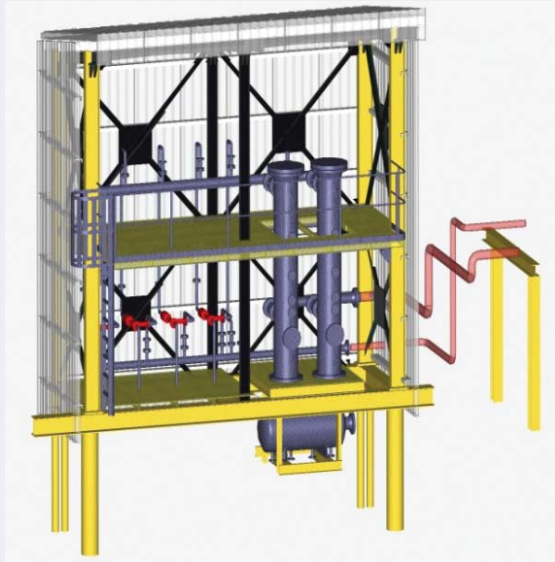


Process make-good  
POLINTER –Venezuela



Compression units revamping  
PDVSA - Curacao





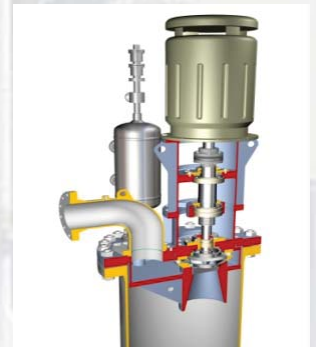
Fuel gas filtration system  
Total E&P - Russia



Mechanical assembly  
PDVSA - ICO



One design for make-good  
Total E&P - Russia



Instrumentation and controls  
Enelven - Venezuela

# COMPANY INFORMATION

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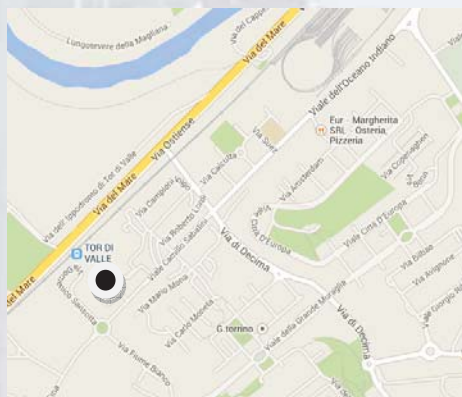
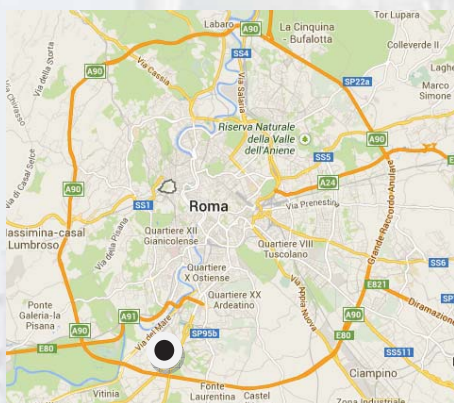
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