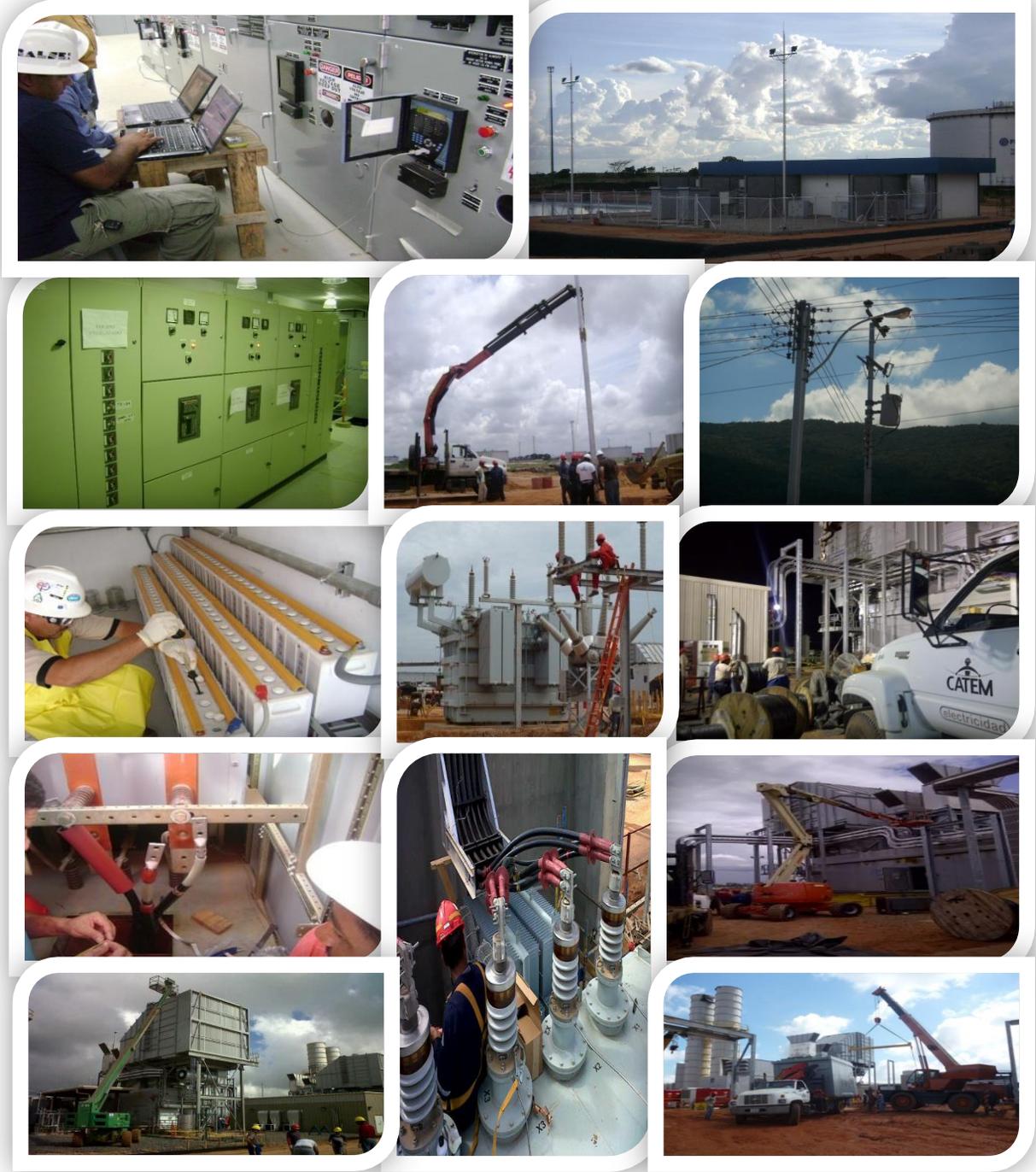


TECHNICAL PRESENTATION



GENERAL INFORMATION

Company Name:	COMPAÑÍA ANÓNIMA TÉCNICA ELECTROMECÁNICA (CATEM)
RIF.: NIT.:	J-00036002-2 0001525522
Date Of Foundation and Other Constitutional Data:	Registered on February 28, 1957, in the Second Mercantile Registry of the Federal District and Miranda State, under No. 36, Volume 1-A. The latest Bylaw Amendment is recorded as Of December 03, 2009, in the First Mercantile Registry Office of the Judicial District of Anzoátegui State, under No. 10, Volume 44-A. Accounting Year-End: March of each year.
Term of the Company	One hundred (100) years as of February 28, 1957, extendable at the discretion of the Shareholders' Meeting
Headquarters and Tax Domicile	Calle 1 ó Calle San Antonio Local Parcelas 01 y 02 Nro. 01 y 02 Sector Pequeña y Mediana Industria Zona Industrial Mesones Barcelona Anzoátegui Zona Postal 6001
Phone - Fax:	+58 (0412)180.61.50 – (0412)205.34.84 – (0414)780.70.40 - (0412) 182.80.98
Website	www.catem.com.ve
E-mail:	contrataciones@catemve.com catecnicaelectromecanica@gmail.com
Contact Person:	Gaizka Mugarra. Phone: +58(0412) 180.61.50
Registered with:	SNC: 1202015000360022, Nivel XXXIX INPSASEL (Boiler Service Provider Company): REPSC-ANZ-25-0080 REPS, Colegio de Ingenieros, Certificación Fondo Norma ISO 9001: 2.008 I.N.C.E.S., I.V.S.S., F.A.O.V.
Employees:	81
Total Workforce:	19
Offices and Warehouses:	<ul style="list-style-type: none"> •<u>Barcelona, Estado Anzoátegui</u>: Zona Industrial Mesones, 1ra. Transversal (frente a HIPER LIDER),. Phone: (0281) 274.77.78 •<u>Maracay, Estado Aragua</u>: Zona industrial El Piñonal, Sector San Carlos (frente al INAM),. Phone: (0243) 271.26.40. •<u>Punta de Mata, Estado Monagas</u>: Zona Industrial Punta de Mata, Final Av. Perimetral con Av. Raúl Leoni (Al Lado de Serinelca),. Phone: (0292) 337.18.23.

GENERAL INFORMATION

Main Business Activity:

ELECTRICAL

Engineering, Procurement and Construction:

- Electromechanical Assembly.
- Substations: 115 Kv./ 34.5 Kv./ 13.8 Kv. / 480 V., 240 V-, 120 V.
- Lines and Networks: High, Medium and Low Voltage. Overhead and Underground.
- Power Generation Systems/ Gensets.
- Public, Industrial and Sports Field Lighting .
- Lightning Protection and Grounding System for Equipment and Facilities .
- Cathodic Protection .
- Calibration, Testing, and Measurement of Systems and Equipment .
- Motor Control Center (MCC) and Power Distribution Center (PDC).
- Civil Works Related to: Duck banks, Trenching, Basements, Building and Booths, Metal Structures, Conduit piping and Cables Trays.
- Automatic Control and Instrumentation.
- Voice and Data via Copper and Fiber Optics.
- Fiber Optics and Structured Cabling.
- Maintenance of Electrical, Telephone, and Fiber Optic Networks
- Trials, Testing, Measurements, and System/Equipment Commissioning.

AUTOMATION, INSTRUMENTATION, AND TELECOMMUNICATIONS (A.I.T.)

Engineering, Procurement, and Construction (EPC):

- Industrial Boiler Instrumentation, BMS (Burner Management System) Control Panels.
- Basic and Detailed Engineering Projects for Process Control, Instrumentation, and Industrial Automation.
- Automated Control and Monitoring Systems, Fire & Gas, and Emergency Shutdown (ESD).
- Configuration, Installation, Connection, and Commissioning of Electric and Pneumatic Actuators.
- Configuration, Installation, Connection, and Commissioning of Sensor, Monitoring, and Vibration and Temperature Control Systems for Vibratory Equipment.
- Installation of DCS, SCADA, RTU, and PLC Control Equipment, Analyzers, Control Panels, Pressurized Cabinets, Soft Starters, and Variable Frequency Drives (VFD).
- Configuration, Installation, Connection, and Testing of CCTV Systems.
- Aerial and Underground External Telephone Plant (Copper and Fiber Optic).
- Structured Cabling.
- Loop and Functional Testing. Pre-Commissioning and Commissioning.
- Civil Works related to: Duct banks, trenching, vaults, buildings, and shelters. Steel structures, Conduit piping, and Cable trays.

MECHANICAL:

- Industrial Boiler Maintenance and Certification.
- Manifold Construction: Pipe cutting and welding, Flanges, and Valve installation.
- Prefabrication and Assembly of Steel Structures. Sandblasting and Painting.
- Mechanical Assembly of Compressor Equipment
- Integrated Forced Ventilation Systems.
- Integrated Air Conditioning Systems.

Clients:

PETROPIAR (AMERIVEN), PETROCEDEÑO (SINCOR), PDVSA PETRÓLEO, PDVSA GAS, TECNOCONSULT, PETROANZOÁTEGUI (PETROZUATA), PETRO MONAGAS (O.C.N.), HONEYWELL, RASACAVEN, CTA SATELCA, PASVAL C. A., ALSTOM SA, GRINTA C. A., KVAERNER, CONSORCIO PETRO ORINOCO, CANTV, ELECTRICIDAD DE CARACAS, HARVEST VINCLER, REPSOL YPF, JANTESA, CADAPE, SIDOR, KBR, IVIC, MINDUR, METRO DE CARACAS, INAVI, CAZTOR, IND. PETRO SAN FELIX S.A, SINOVENSA, SERVICIOS INTEGRALES MOCA,C.A, SUPER OCTANOS C.A, METANOL DE ORIENTE METOR S.A,

Banking References:

- BANCO PROVINCIAL. Phone: (0281) 267.25.22/267.24.45.33
- BANCO DE VENEZUELA. Phone: (0281) 264.95.50/264.95.17
- BANCO MERCANTIL Phone. (0281) 264.31.50/264.31.51.
- BANCO NACIONAL DE CREDITO Phone. (0281) 268,80,79/266,11,65.

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
<p>METANOL DE ORIENTE METOR S.A.</p>	<p><u>GM-C-2025-27</u>“INSPECTION, MAINTENANCE, AND CERTIFICATION OF AUXILIARY BOILERS B-620A, B-620B, AND B-620C OF METANOL DE ORIENTE, METOR, S.A.”</p>	<p><u>THE SCOPE OF WORK INCLUDES:</u></p> <ul style="list-style-type: none"> ➤ Boiler Certification before Inpsasel Institution. ➤ Installation of Blinds, Removal and Installation of Refractory Bricks, caulking and repair of floors, walls and ceilings of the boiler hearth. ➤ Maintenance and Calibration of PSV safety valves. ➤ Internal Cleaning, Hydrostatic Test. ➤ Painting of Pipelines in FNG lines. Opening, cleaning and closing of Flash Room ➤ Hot Spot Repairs. ➤ Replacement of Pipelines, Valves and accessories of Superheater. ➤ Replacement of expansion joints in burners. ➤ Disassembly, maintenance, Calibration and Installation of Pressure indicators and Temperature indicators ➤ Disassembly, maintenance, Calibration and Installation of Pressure, Flow and Level Switches. ➤ Disassembly, maintenance, Calibration and Installation of Pressure, Flow, Level and Temperature Transmitters. ➤ Maintenance of ON-OFF Valves. ➤ Maintenance of Control Valves. ➤ Uninstallation, maintenance and Installation of Electric Motors. 	<p>MIGUEL HENRIQUEZ (0426-5830530)</p>	<p>2025</p>
<p>METANOL DE ORIENTE METOR S.A</p>	<p><u>GM-C-2024-08</u> “REPLACEMENT OF POWER CABLES ASSOCIATED WITH EQUIPMENT U-610-P3A, P-614C, Z-1701 A/B, P-741a AND HV-8010C AT METOR S.A. PLANT 1”</p>	<p><u>THE SCOPE OF WORK INCLUDES:</u></p> <ul style="list-style-type: none"> ➤ _Supply and installation of surface electrical raceways (cable trays, conduit, and Liquid-tight flexible tubing), supports, and sleepers. ➤ Laying and electrical connection of power cables through electrical raceways, cable trays, equipment, duct banks, and under raised floors. ➤ Construction of duct banks for electrical service to pumps and road crossings. ➤ Supply, installation, and electrical connection of instruments on equipment. ➤ Supply, assembly, and installation of field boxes with all accessories for the connection of control cables. ➤ Supply and installation of terminal blocks in control cabinets. ➤ Supply and installation of grounding connectors for equipment and structures. ➤ Retrofitting of the existing 480 V bucket, located in MCC-202 of the METOR Plant 1 local electrical substation, for the power supply of the actuators. 	<p>MIGUEL HENRIQUEZ (0426-5830530)</p>	<p>2025</p>

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
METANOL DE ORIENTE METOR S.A	<u>GPP-STAP1-2024-19</u> "GENERAL ELECTRICAL MAINTENANCE AT PLANT 1 DURING THE SCHEDULED PLANT TURNAROUND STA 2024-P1 FOR METANOL DE ORIENTE, METOR, S.A."	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Supply and installation of surface electrical conduits (cable trays, conduit, and Liquid-tight flexible tubing). ➤ Laying and electrical connection of power and control cables through electrical conduits, cable trays, equipment, duct banks, and under raised floors. ➤ Disassembly of all equipment, accessories, and other parts installed on the valves (prior to the installation of new actuators). ➤ Mounting, securing, and connection of new electric actuators, equipment, and other accessories using hoisting equipment. ➤ Supply, assembly and installation of field boxes with all its accessories for the connection of control cables. ➤ Supply, assembly and installation of field boxes with all its accessories for the connection of control cables. ➤ Supply and installation of terminal blocks in control cabinet. ➤ Supply and installation of connectors for grounding of equipment and structures. ➤ Supply and installation of power distribution board in 480 V. ➤ Retrofitting of the existing 480 V spare bucket B6K, located in the MCC-202 of the local electrical substation of METOR plant 1, for the power supply of the new electric actuators. ➤ Configuration, programming and loop testing to the control room, start-up and commissioning of the 04 new electric actuators (HV-0210, HV-0212, HV-0402, HV-6202). 	LUIS ANZOLA (04122727624)	2024
SUPER OCTANOS C.A (SUBCONTRACTED BY SERVICIOS INTEGRALES MOCA C.A)	<u>SO-GMT-CDC-2023-12</u> "LIGHTING RESTORATION SERVICE AND MAINTENANCE OF THE SUPER OCTANOS C.A. PLANT SUBSTATIONS"	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Mobilization and demobilization of temporary facilities. Inspect each area for the lighting system maintenance survey. ➤ Inspection of Substations for the equipment maintenance survey. ➤ Disconnect the circuit or branch to be maintained according to the drawing. In case of modification, record and identify it. ➤ Check the secondary power distribution board. ➤ Verify and identify each circuit or branch. Perform maintenance on the secondary board. ➤ Replace breakers, selectors, fuses, and terminal blocks that are not in good condition. ➤ Maintenance of the circuit breaker-contactor trucks of Electrical Substation 1. ➤ Maintenance of the power and control buckets of Electrical Substation 1. ➤ Maintenance of the power and control buckets of Electrical Substation 2. ➤ Maintenance of the soft starters of Electrical Substation 2. ➤ Replacement of components in poor condition. ➤ Review lamp bases and sockets; if not in good condition, replace them. ➤ Review the cable laying. ➤ Adjust the wiring inside the pull box. ➤ Check the main distribution board. ➤ Maintenance of the main distribution board. 	RUBEN TOVAR (0412-7845890)	2023

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
PDVSA PETRÓLEO, S.A.	N° 1B-111-005-D-21-N-0008 "SERVICE FOR THE MAINTENANCE AND PRODUCTION INCREASE OF EXTRA-HEAVY CRUDE OIL IN THE OPERATIONAL AREAS OF THE MORICHAL DISTRICT - CARABOBO DIVISION, SUITABLE FOR THE EXPORT MARKET, THROUGH THE INTEGRAL INTERVENTION OF THE SUBSURFACE AND SURFACE TO ALLOW THE OPTIMAL AND RELIABLE HANDLING OF CRUDE OIL, GAS, AND WATER."	<u>THE SCOPE OF WORK INCLUDES:</u> <ul style="list-style-type: none"> ➤ Supply of material goods, equipment, and parts for the execution of activities associated with maintenance and production enhancement, likewise considering the execution of facility expansion projects based on operational demand, associated services, among others. ➤ Execution of well work for the sustainment and enhancement of crude oil production from the Mery 16 segregation, and any other activity inherent to increasing production or ensuring well integrity. ➤ Effective measurement of process parameters and fluid quality throughout the entire production chain, as well as process optimization to guarantee the quality and volumes of production fluids. 	Carlos Torres 0424-9285078	2021-2022
Petro San Felix, S.A	Heavy Machinery Rental Service for Coke and Sulfur Material Hauling at the Petro San Felix, S.A. Solids Handling Terminal.	<u>THE SCOPE OF WORK INCLUDES:</u> <ul style="list-style-type: none"> ➤ Heavy machinery rental service for solids handling. 	Julio Castañeda (0414) 8062532	2019
Petro San Felix, S.A	4U-159-016-D-17-S-0203 UPS Maintenance, Replacement of Bus Ducts and Protection System Relays for the Upgrader Plant Switchgear.	<u>THE SCOPE OF WORK INCLUDES:</u> <ul style="list-style-type: none"> ➤ Procurement of Domestic and Imported Equipment and Materials for the execution of works (General Electric). ➤ Supply of all materials, equipment, and personnel for the installation of procured items. ➤ Testing and Commissioning of the Works. 	Jose Soto (0414) 3817103	2019

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
PDVSA Petrocedeno , S.A	3N-069-002-D-18-N-0393 Instrumentation Works for Unit 4100	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the execution of works. ➤ Supply of all materials, equipment, and personnel for the laying, installation, and certification of the instrumentation and fiber optic cabling network. ➤ Installation and calibration of instruments and commissioning. 	Robert Subero (0414) 9944742	2018
HQC Sinovensa	35-400-52-F-0396 Electrical and Instrumentation Work for Pumping Plant Mesa 30	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the execution of works. ➤ Supply of all materials, equipment, and personnel for the laying, installation, and certification of the electrical, instrumentation, and fiber optic cabling network. ➤ Electrical installation of pumps, panels, transformers, and power cells. ➤ Installation and calibration of instruments and commissioning. 	Xhu Zanhe (0414) 7896360	2018
HQC Sinovensa	3G-580-55-36-005 High-speed fiber optic network to interconnect Mesa 30 pumping station with PMJ Sinovensa – Jose Control Room	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the execution of works. ➤ Supply of all materials, equipment, and personnel for the laying, installation, and certification of the fiber optic network. ➤ Construction of duct banks, trenches, and manholes. ➤ Fiber optic cable installation. ➤ 116 terminations and certifications of fiber optic strands. 	Xhu Zanhe (0414) 7896360	2018
Pequiven, S.A	CA-GMTTO-1116-41 Paint Application on Piping and Structures of the G/D Jose Antonio Anzoátegui Petrochemical Complex.	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Supply of Paints according to technical specifications. ➤ Labor. ➤ Mobilization of equipment and personnel. ➤ Installation and dismantling of scaffolding. 	Regina Salazar (0281) 2708132	2016-2017

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
Petropiar S.A.	<u>4600010829 / 4600010814</u> Adaptation and Upgrades to the Situation Room and Meeting Room of the Petropiar, S.A. Upgrader.	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the execution of works. ➤ Supply, installation of equipment and OSAT testing, packaging, identification of elements of the Visualization and Control system. ➤ Cable pulling, dressing, arrangement, testing, all necessary transportation, unwinding of reels, and cable identification. ➤ Remodeling of Las Isletas, Mochima, Pescadores, Puinare, Arapo, Control Room, and El Faro rooms. 	Alberto Rodriguez (0416) 6929560	2016-2017
Petro San Felix, S.A	<u>Nº4U-069-036-D-16-N-0023</u> Supply and Installation of the voice and data network for the 2015 Turnaround of Petro San Felix, S.A.	<p>THE COPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials required for the execution of the works. ➤ Provision of all materials, equipment, and personnel for the laying, installation, and certification of the structured cabling and fiber optic network. ➤ Supply of parts and components to provide voice and data network services. 	Carlos Salazar (0281) 264 1192	2016-2017
PDVSA Petróleo, S.A.	<u>Nº 4600061183</u> Electrical and Instrumentation Works for PIGAP 1 Plant Capacity Expansion	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works. ➤ Electrical and Instrumentation Works. ➤ Professional Services to Install: Scrubbers, Coolers, Nitrogen Generation Skid, Instrument Air, SCI, CCM, CDP, Power Transformers, and Mark VI Control system. ➤ Integration of Gas Suction and Discharge Systems and the plant's Relief and Venting Systems. 	Gregorio Rodríguez (0416) 791 4799	2015-2016

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
Petropiar, S.A.	<u>Nº 4600008522</u> Maintenance of the Grounding System at Petropiar Production Facilities	THE SCOPE OF WORK INCLUDES: <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works ➤ Supply of professional, technical, and skilled Labor. ➤ Supply of Tools and Equipment ➤ Installation and Maintenance of: Cable Connections, Copper weld Rods, Busbars, Chemical Rods ➤ Perform Exothermic Welding ➤ Manual and Machine Excavation Activities ➤ Miscellaneous Installations 	Ever Morales (0283) 500 2741	2015
PDVSA Petróleo, S.A.	<u>Nº 4600008655</u> Automation of Production Stations in the San Tomé District (Bared-04)	THE SCOPE OF WORK INCLUDES: <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works. ➤ Cleaning, demarcation, location, and surveying of areas. ➤ Construction of Duct Banks. ➤ Construction of Stub-ups. ➤ Construction of Manholes ➤ .Construction of Steel Columns. ➤ Installation of Tripod Poles. ➤ Civil, mechanical, instrumentation, electrical, and automation disciplinary works. 	Carmelo Ramírez (0283) 230 2069	2015
PDVSA Petróleo, S.A.	<u>Nº 4600008136</u> Automation of Production Stations in the San Tomé District (Bared-05)	THE SCOPE OF WORK INCLUDES: <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works. ➤ Cleaning, demarcation, location, and surveying of areas. ➤ Construction of Duct Banks. ➤ Construction of Stub-ups. ➤ Construction of Manholes. ➤ Construction of Steel Columns. ➤ Installation of Tripod Poles. ➤ Civil, mechanical, instrumentation, electrical, and automation disciplinary works. 	Carmelo Ramírez (0283) 230 2069	2015
PDVSA Petróleo, S.A.	<u>Nº 4600008142</u> Automation of Production Stations in the San Tomé District (Bared-06)	THE SCOPE OF WORK INCLUDES: <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works. ➤ Cleaning, demarcation, location, and surveying of areas. ➤ Construction of Duct Banks. ➤ Construction of Stub-ups. ➤ Construction of Manholes. ➤ Construction of Steel Columns. ➤ Installation of Tripod Poles. ➤ Disciplinary works: civil, mechanical, instrumentation, electrical, and automation. 	Carmelo Ramírez (0283) 230 2069	2015

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
PDVSA Petróleo, S.A.	Nº 4600008286 Automation of Production Stations in the San Tomé District (Bared-08)	THE SCOPE OF WORK INCLUDES: <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works. ➤ Cleaning, demarcation, location, and surveying of areas. ➤ Construction of Duct Banks. ➤ Construction of Stub-ups. ➤ Construction of Manholes. ➤ Construction of Steel Columns. ➤ Installation of Tripod Poles. ➤ Civil, mechanical, instrumentation, electrical, and automation disciplinary works. 	Carmelo Ramírez (0283) 230 2069	2015
PDVSA Petróleo, S.A.	Nº 460010182 "Supply and Installation of Wireless Network for the 2015 Major Maintenance of Petro San Felix, S.A."	THE SCOPE OF WORK INCLUDES: <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works. ➤ Supply of all materials, equipment, tools, and qualified personnel. ➤ Supply of pieces and parts to provide wireless network services. ➤ Address the needs in permanent facilities that negatively impact the execution of the plant turnaround. 	Carlos Salazar (0281) 264 1192	2015
PDVSA Petróleo, S.A.	Nº 4600059987 "Supply of Crews and Instrumentation Spare Parts at the Gas Compressor Plant Facilities of the Ayacucho Division"	The scope of work includes: <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works. ➤ Supply of Crews and spare parts for the instrumentation discipline. ➤ Technical service and necessary resources for: disassembly, transport, initial testing, dismantling, evaluation of internal and external parts, inspection, repair, replacement of parts, assembly, maintenance, calibration, functional testing, cleaning, and painting. 	Erwin Hernandez (0283) 230 1401	2015
PDVSA Petróleo, S.A.	Nº 4600050359 Commissioning of Underground Circuits Guaraguao Substation – Headquarters Building Substation	THE SCOPE OF WORK INCLUDES: <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the Execution of the works. ➤ Supply of: <ul style="list-style-type: none"> ➤ Single-core Cable. ➤ Terminal Caps. ➤ Power Cable Splices. ➤ Installation and Testing of: <ul style="list-style-type: none"> ➤ Single-core Cable. ➤ Terminal Caps. ➤ Power Cable Splices. 	Joel Chirinos (0281) 260 2544	2013-2014

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
PDVSA Petróleos S.A	<u>No.4600040603</u> "Telecommunications Systems - RPLC Facilities Engineering Building"	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the execution of the works. ➤ Provision of 1,380 Man-Hours (M/H) for Engineering Services. ➤ Supply, Transport, and Installation (S/T/I) of: Ethernet Switches, Asterisk Server, IP Phones, IP Camera, 12-Strand Single-mode Fiber Optic, Racks, Vertical Cable Organizers and Managers, UTP Cables, UTP Patch Panels, Fiber Optic Patch Panels, RJ-45 Female Connectors, Single-mode F.O. LC Connectors, UTP-Duplex Fiber Optic Patch Cords, Telecommunications Port Faceplates, Data Icons, Cable Ties, Identification Labels, Smart Controller, Input / Output Interface Card, Proximity Readers, Electromagnetic Locks, Telecommunications Grounding Busbars (TGB) for Racks, #6 and #10 THW Cables, Copper weld Ground Rods, Cadweld Welds, Unistrut Support System, and Anti-static Flooring. 	Rosa Brito (0281) 260 3215	2012-2013
Pro Energy Services S.A.	<u>No. PES-10-T1004-00-C-D-EC-003</u> Electrical & Instrumentation Works at the El Furrial Thermoelectric Plant (Phase I)	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials required for the execution of the works. ➤ Installation of Equipment (MCC, LWSSGR, SWGRS, HV JB's, Lw JB's, and F&G JB's), Battery Chargers, and Racks. ➤ Installation of the Grounding System. ➤ Mechanical Installation of Structures for high and low voltage cable trays. ➤ Installation of 16,000 linear meters of Rigid Galvanized Steel (RGS) conduit of various diameters. ➤ Installation of 4,500 linear meters of cable trays. ➤ Laying of 95,000 linear meters of high and low voltage cables of various diameters, as well as control cables. ➤ Termination and Connection of high and low voltage and control cables of various diameters. 	Brian Hume (0414) 916 4433.	2012-2013

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
PDVSA Petróleos, S.A.	<u>Nº 4600042241</u> Construction Works for the Implementation of the New Security, Pressurization, and Air Quality System at the Puerto La Cruz Refinery Central Bunker	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials necessary for the execution of the works. ➤ Supply of: <ul style="list-style-type: none"> • Conduit Piping (Various Diameters). • Cables and Copper Conductors. • Cabinets. ➤ Installation of: Pressure, Humidity, and Temperature Transmitters; Smoke and Gas Detectors; Strobe Lights; Sound Diffusers; Manual Pull Stations; and FM200 Fire Suppression Systems. ➤ Installation, Mounting, and Testing of: <ul style="list-style-type: none"> • Cabinets: Wall-mounted, Interposing Relays, and Self-supporting. ➤ Instrument Loop and Functional Equipment Testing. ➤ Design of Distribution and Spray Lines for the FM200 agent. ➤ Construction of Discharge Lines with FM200 System nozzles. ➤ Dismantling of: <ul style="list-style-type: none"> • General site components, Conduit piping of various diameters, Junction Boxes, Cabinets, Gas Detectors, Strobe Lights, Sound Diffusers, and Manual Stations. ➤ Support for Construction Activities including Engineering Man-Hours (M/H) and "As-Built" Drawings. 	Francisco Sánchez (0281) 260 5630	2012-2013
PDVSA Petróleos S.A.	<u>No.4600035142</u> Civil, Electrical, and Instrumentation Works Associated with the New Electrical Substation at the Saltwater Plant, El Chaure Refinery	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials required for the execution of the works. ➤ Installation of the POWER HOUSE, Installation of 2.75 MVA Transformers, and HYUNDAI MCC. ➤ Construction of Duct Banks, Manholes, and Slabs. ➤ Laying of High, Medium, and Low Voltage Cables, as well as Control Cables (39,500 linear meters). ➤ Termination and Connection of Low Voltage and Control Cables. ➤ Installation of Termination Kits (Potheads) for 15 KV 4/0 AWG cables. ➤ Testing and Commissioning of Transformers, MCC, and Saltwater Pumps for cooling at El Chaure Refinery. ➤ Installation and Laying of Fiber Optic Cables and fusion splicing of connectors. 	Adriana Rodríguez (0281)260 5415.	2011
PDVSA Gas, S.A	<u>No. 4600010810</u> Expansion and Improvements to the Electrical Power Distribution System in the Los Potocos Community, San Celestino Sector, Barcelona.	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials required for Project Execution. ➤ Installation of 33' Poles. ➤ Installation of 136 Single-Phase Pad-Mounted Transformers (75 kVA). ➤ Installation of 45 Single-Phase Pad-Mounted Transformers (35 kVA). ➤ Stringing and Service Connections for 4/0 AWG Arvidal Cable. 	Eleana Aldana (0281) 808 9576.	2010-2011

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
<p>PDVSA Petróleos, S.A.</p>	<p><u>No. 4600025350</u></p> <p>"Construction Works for the Implementation of the New Communication and Motorized Valve Control System, Tank Farm, Puerto La Cruz Refinery. "</p>	<p><u>THE SCOPE OF WORK INCLUDES:</u></p> <ul style="list-style-type: none"> ➤ 3,000 engineering man-hours. ➤ Mechanical Maintenance of 80 Actuators. ➤ Mechanical and Electrical Repair of 35 Actuators. ➤ Replacement of 30 Actuators. ➤ Supply, assembly, and installation of 1,000 linear meters of 2" RMC (Rigid Metal Conduit). ➤ Supply, assembly, and installation of 10,100 linear meters of RMC piping of various diameters. ➤ Installation of 90 Junction Boxes (JBs). ➤ Laying, installation, and termination of 28,000 linear meters of control cable. ➤ Laying and installation of 9,500 linear meters of Fiber Optic cable. ➤ Fiber Optic fusion splicing. ➤ Construction of 3,000 linear meters of duct banks. ➤ Commissioning and certification of all Project systems. 	<p>Francisco Sánchez (0281) 260 5630</p>	<p>2008-2009</p>
<p>PDVSA Petróleos, S.A.</p>	<p><u>No. 4600019485</u></p> <p>Complementary Automation and Instrumentation Works for the New LPG Plant, PLC Refinery.</p>	<p><u>THE SCOPE OF WORK INCLUDES:</u></p> <ul style="list-style-type: none"> ➤ 3,000 engineering man-hours. ➤ 3,900 linear meters of trenching. ➤ Supply and Installation of 12,000 linear meters of 2" RMC (Rigid Metal Conduit). ➤ Supply, assembly, and installation of 13,000 linear meters of RMC piping of various diameters. ➤ Installation of 90 Junction Boxes (JBs). ➤ Laying, installation, and termination of 38,000 linear meters of control cable. ➤ Laying, installation, and termination of 12,000 linear meters of electrical cable. ➤ Installation of 45 Actuators. ➤ Installation of 185 Instruments. ➤ Installation of 20 Junction Boxes (JBs). ➤ Construction of 4 control rooms. ➤ Installation of 8 CCTV domes. ➤ Commissioning and certification of Vibration and Temperature systems. ➤ Commissioning and certification of Fire and Gas systems. ➤ Commissioning and certification of SHUTDOWN emergency systems. 	<p>Lesmary Felce (0281) 260 7132</p>	<p>2008</p>

SUMMARY OF WORKS (2008-2025)

CONTRACTING ENTITY	PROJECT / CONTRACT	SCOPE OF SERVICES	CONTACT	YEAR
<p>PDVSA Petróleos, S.A.</p>	<p>No. 4600031993 Construction of Electrical Sub-Station 71-e and Pumping Increase through 42" Diameter Pipeline.</p>	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ Procurement of Equipment and Materials required for Project Execution. ➤ 1,500 engineering man-hours. ➤ Civil Works: Earthworks, Duct Banks and Trenches, Slabs, Steel Deck Roofing, Foundations, Foundation Remediation, Manholes, Tanks, and Pits. ➤ Bolted Structure Assembly for the Substation hall and enclosure. ➤ Installation of Equipment: 5 MVA Transformers, 750 kVA Pad-mounted Transformers, Motor Control Centers (MCC), Power Distribution Centers, Medium and Low Voltage Panels, Medium Voltage Bus Ducts, and High Voltage Circuit Breaker Installation. ➤ Installation and Laying of 2,000 linear meters of 15 kV, 350 MCM Three-core Cables. ➤ Installation and Laying of 1,750 linear meters of 5 kV, 750 MCM cables. ➤ Installation of 15 kV and 5 kV Termination Kits for 350 and 750 MCM cables. ➤ Laying, Termination, Testing, and Commissioning of Fiber Optics between Substation 20 and Substation 71-e. ➤ Software Update for GE Multilinks. ➤ Programming and Integration of Automation Systems, SCADA System, and Crude Oil Custody Transfer System at the Oficina El Tigre Tank Farm. ➤ Start-up and Commissioning of 3250 HP Sulzer Crude Oil Pumps and 1250 HP BOOSTER Pumps. ➤ Start-up and Commissioning of Substation 71. 	<p>Manuel Yeguez (0426) 994 0746</p>	<p>2009-2010</p>
<p>PDVSA Petróleos, S.A. E INELECTRA (CONFEEED)</p>	<p>No. 4600036016 Relocation of Fiber Optics (F.O.) for the LPG and El Chaure Areas, RPLC (EW-01.02T).</p>	<p>THE SCOPE OF WORK INCLUDES:</p> <ul style="list-style-type: none"> ➤ 800 engineering man-hours. ➤ Construction of 4,500 linear meters of duct banks and 23 large manholes. ➤ Installation and underground/aerial laying of 1" Innerduct and 24-strand Fiber Optic cable. ➤ Fiber Optic fusion splicing. ➤ Measurement and Commissioning of the fiber optic ring. ➤ Certification of the fiber optic ring. 	<p>Oswaldo Castillo (0281) 289 2265</p>	<p>2010</p>

MACHINERY LIST

MACHINERY						ATTACHMENT		
Nº	TYPE	MAKE	MODEL	YEAR	SPECIFICATIONS	TYPE	MAKE	MODEL
1	Telescopic Crane	TEREX	RT-230	1,998	30 Ton.			
2	Boom Lift	JLG	80XH - 4x4	2,001	80 Ft.			
3	Boom Lift	GENIE	S60 - 4x4	2,001	60 Ft.			
4	Boom Lift	JLG	450AJ - 4x4	2,002	45 Ft.			
5	Light Towers	Ingersoll Rand	L 6	2,003	6 Kw.			
6	Light Towers	Ingersoll Rand	L 6	2,003	6 Kw.			
7	Light Towers	Magnum	MLT3060	2,005	6 Kw.			
8	Backhoe Loader	John Deere	410 B	1,984	0,76 M3			
9	Backhoe Loader	John Deere	310 D	1,992	0,63 M3	Auger	John Deere	KV15766
10	Backhoe Loader	John Deere	310 G	2,008	0,63 M3	Hydraulic Hammer / Breaker	OKADA	TOP 205
11	Backhoe Loader	John Deere	310 G	2,008	0,63 M3	Scarifier	Ditch Witch	AP 400
12	Track-Type Plow / Trencher	Ditch Witch	HT - 115	2,006	115 Hp.	Plow	Ditch Witch	H 932
13	Wheel-Type Plow / Trencher	Ditch Witch	RT - 115	2,006	115 Hp.	Rock Saw / Wheel Trencher	Ditch Witch	H 1140
14	Rubber Track Backhoe	Ditch Witch	XT - 850 H	2,007	0,1 - 0,4 M3.	Chain Trencher	Ditch Witch	H 911
15	Rubber Track Backhoe	Ditch Witch	XT - 850 L	2,007	0,1 - 0,4 M3.	Reel Carrier / Reel Stand	Ditch Witch	RC 115
16	Concrete Conveyor	Betagama	DH-0651D	1984	0,50 m3.			
17	Stationary Concrete Mixer	Betagama	IMHD65	1984	0,75 m3.			
18	Asphalt Compactor	Vibromax/Case	VLW22L	1998	850 Kg. / 84 cms.			
19	Air Compressor	Atlas Coppco	XA-81	1985	cfm : 185 p3.			
20	Air Compressor	Ingersoll Rand	175PWD	1993	cfm : 200 p3.			
21	Air Compressor	Ingersoll Rand	P100WD	1993	cfm : 100 p3.			
22	Air Compressor	Betico	F3L92	1995	cfm : 165 p3.			
23	Concrete and Asphalt Saw	Vibromatic	F400	2,011	18"			
24	Power Generator	Cummins	C30	2,011	37,5Kva.-Diesel/Silen.			
25	Power Generator	IGSA	J40	2,009	50 Kva.-Diesel			
26	Power Generator	Generac	Guardian/ Serie	2,011	20Kva.-GLP/Silencio			
27	Power Generator	Toyama	T19-00T3	2,002	19Kva.-Diesel/Silencio			
28	Welding Machine	Lincoln	D300K	2,007	350 A / Diesel			
29	Welding Machine	Lincoln	D300K	2,007	350 A / Diesel			
30	Welding Machine	Miller	Big Blue 400CX	2,010	400 A / Diesel			
31	Welding Machine	Miller	Gold Start 452	2,009	400 A / Eléctrica			
32	Compresor de AiAir Compressorre	ABAC	B 3800	2,010	270 lts. / 9 Bares			

MACHINERY LIST

Nº	TYPE	MAKE	MODEL	QUANTITY
A-. CIVIL WORKS				
1.-	Water Pump	Watert Pump	168f / 2"	1
2.-	Water Pump	Briggs Stratton	AT 3600rpm/8hp.	2
3.-	Water Pump	Briggs Stratton	AT 3600rpm/12hp.	1
4.-	Submersible Water Pump	MYER	ME4150/8,5 lt.xsg	1
5.-	Water Tank Trailer (Steel)	CATEM	2,5 M3.	1
6.-	Steel Water Tank	CATEM	10 M3.	1
7.-	Steel Diesel Tank (UL/Safety Compliant)	CATEM	1,5 M3.	2
8.-	Road Roller / Compact Roller	Bomag	5407(0,80 cms.)Manual	1
9.-	Plate Compactors	CASE	Rana (0,45 cms.)	2
10.-	Plate Compactors	STONE	Sapo (0,30 cms.)	2
11.-	Concrete Vibrator	Briggs Stratton	B5000 (Diesel)	3
12.-	Concrete Vibrator	Briggs Stratton	Rx65 (Gasolina)	2
13.-	Concrete Vibrator	Atlas Coppco	Neumático	1
14.-	Concrete Mixer	Betagama	0,33 M3. - Diesel	3
15.-	Chainsaw	Grafts man	350	2
16.-	Power Generator / Genset	ONAN	5 Kva. - Gasoil	3
17.-	Power Generator / Genset	Briggs Stratton	3,5 Kva. - Gasolina	4
18.-	Electric Jackhammer	HILTI	TE-75	1
19.-	Electric Jackhammer	HILTI	TE-74	1
20.-	Electric Jackhammer	HITACHI	HC115	2
21.-	Non-Sparking Tools (Bronze): Picks, shovels, digging bars, sledgehammers, etc.			2 Jgos.

B-. IRONWORK AND FABRICATION				
1.-	Magnetic Drill Press - 3/4"	Milwaukee	4203	1
2.-	Benchtop Drill Press - 1 1/4"	METBO	ZJ5116 - 3/4 Hp.	1
3.-	Handheld Hammer Drill	HILTI	TE-1	4
4.-	Handheld Hammer Drill	HILTI	TE-12	2
5.-	Combination Rotary Hammer	HILTI	TE-60	2
6.-	Combination Rotary Hammer	HILTI	TE-905	2
7.-	Metal Hole Saw / Step Drill	HILTI	UH-700	1
8.-	Core Drill - w/Anchoring System. 2"-10"; w/ext up to 36"	Milwaukee	4096	1
9.-	Abrasive Cut-Off Saw - 14"	Milwaukee	6190-20	2
10.-	Abrasive Cut-Off Saw - 14"	DEWALT	1500 rpm.	1
11.-	Bench Grinder	METBO	Trifasico	1
12.-	Angle Grinder - 4 1/2"	DEWALT	02870-B3	2
13.-	Angle Grinder - 7"	SKIL	FO12 9777AA	3
14.-	Complete Oxy-Fuel Cutting Outfit			3
15.-	Air Compressor	HUAIR	FC2-50CCM2(50 lts.)	2
16.-	Pneumatic Impact Wrench - 3/4"	Cambell Hausfeld	PL1586	2
17.-	Hoist	Jaguar	1.500 Kg.	1
18.-	Hoist	BETTER LIFT	10.000 Kg.	1
19.-	Scaffolding	COMETI	Cup Lock	25 Cuerpos

MACHINERY LIST

C-. PIPING				
1-. Pipe Threading Machine - Up to 2"		RIDGID	300-T2	2
2-. Pipe Threading Machine - Up to 4"		RIDGID	1224	1
3-. Manual Pipe Threaders		RIDGID	1/2"-2"	3
4-. Manual Hydraulic Pipe Bender		Greenlee	777	2
5-. Manual Hydraulic Pipe Bender		Greenlee	1001	1
6-. Electric Hydraulic Pipe Bender		Greenlee	960SAPS	1
7-. Electric Pipe Bender - Up to 2"		Greenlee	555C	1
8-. Hydraulic Knockout Punch Set: 1/2" - 4"		Greenlee	767	1
9-. Pipe Wrenches (Stillson Type) 6"		RIDGID		1
10-. Pipe Wrenches (Stillson Type) 4"		RIDGID		4
11-. Pipe Wrenches (Stillson Type) 2"		RIDGID		12
12-. Chain Pipe Wrenches 4"-6"		RIDGID		2
13-. Chain Pipe Wrenches 2"		RIDGID		4
14-. Pipe Vise Tripod Stands		RIDGID		10
15-. Pipe Cutter: 4" - 6"		RIDGID	B348	1
16-. Pipe Cutter: 8" - 12"		Patents	174706	1

D-. ELECTRICAL CABLE LAYING AND TERMINATION				
1-. Duct Rodder (Conduit Rodding)		CONDUX	3/8" - 180 mts.	2
2-. Duct Rodder (Conduit Rodding)		CONDUX	3/8" - 120 mts.	2
3-. Duct Rodder (Conduit Rodding)		CONDUX	1/8" - 60 mts.	2
4-. Telescopic Hot Stick		HASTINGS	S-235	1
5-. Mechanical Articulated Shotgun Stick		CHANCE	C4030299	1
6-. Dielectric Protective Gloves		Salisbury	ILP-35	1
7-. Dielectric Rubber Gloves - 40kV		NOVAX	D120	1
8-. Dielectric Blankets - 40kV		NOVAX	1x1,5 mts.	6
9-. Hinged Snatch Blocks for Winch Stringing		CONDUX	C-700 (4") y C-720 (6")	4
10-. Strand Bullet		CONDUX	De 4" - 6"	1
11-. Conduit Guide Pulley		CONDUX	De 4" - 6"	2
12-. Manhole Guide Pulley		CONDUX	Doble de 6".	2
13-. Cable pulling grips		CONDUX	De 2" a 8"	10
14-. Winch pulling swivel eye		CONDUX	Hasta 5.000 lbs.	3
15-. Lever hoists		Greenlee	750 Kg.	6
16-. Lever hoists		Greenlee	1.500 Kg.	2
17-. Wire rope pulling clamps		Greenlee	Sapos / Ranas; Varios	12
18-. Cable tray rollers		Greenlee	658 - De 4"	25
19-. Aluminum aerial stringing pulleys		Greenlee	De 12"	30
20-. Cable lashing machine		Greenlee	Hasta 2"	2
21-. Cable lashing machine		Greenlee	Abierta (hasta 5")	1
22-. Fish tapes		CONDUX	Varias formas y medidas	16
23-. Single-axle hydraulic reel trailer		Trucko	5 Ton.	2
24-. Dual-axle hydraulic reel trailer		CATEM	10 Ton.	1
25-. Reel winding machine		Greenlee	6810 (10 hp. Eléctrica)	1 Jgo.
26-. Hydraulic crimping tool		Burndy	YD-35	2
27-. Hydraulic crimping tool		Cembre	HT-131-VC	1

EQUIPMENT LIST

E-. OPTICAL FIBER LAYING				
1-	Ground Penetrating Radar (GPR)	Ditch Wich	2150-GR ; W700 MHz.	1
2-	Resonance detector: Transmitter/Locator	Ditch Wich	950T/950R	2
3-	Innerduct cable blowing machine set	CONDUX	87820000	1
4-	Subduct transport trailer	CATEM	4 carretes d: 2m c/u	1
5-	Duct rodding system	CONDUX	1/4" - 180 mts.	2
6-	Cable pulling grips	CONDUX	De 3/4" a 2"	6

F-. OPTICAL FIBER SPLICING AND CONNECTION				
1-	Optical fiber fusion splicer	FSM-30S	Fujikura	2
2-	Optical fiber fusion splicer	FSM-50S	Fujikura	1
3-	Connector termination kit	SC/ST	Lucent	2
4-	Connector curing oven	9550	Lucent	2

G-. TELEPHONE SPLICING AND CONNECTION				
1-	10" terminal block connecting tool ; Underground	3M	MS-2 ; Hidráulica Sub.	3
2-	10" terminal block connecting tool ; Aerial	3M	MS-2 ; Hidráulica Aérea.	2
3-	PLP disc punching machine	3M	MS-2 / PLP	2
4-	U-connector crimping pliers	3M	Tipo "U"	6
5-	Electric turbine blower for manholes, with flexible duct	3HG	3 hp.	3

H-. TEMPORARY WORKS				
1-	Management Trailer: Bathroom, 2 Offices, Conference Room, Breakroom	Metalúrgica Ori.	2,4 x 12 mts.	1
2-	Container Trailer: 4 Offices, Conference Room, Breakroom	Puerto Guanta	2,4 x 12 mts.	1
3-	Portable office	CATEM	2,4 x 6 mts	4
4-	Combined Canteen and Changing Room for 14 people	CATEM	2,4 x 6 mts	10
5-	Canteen for 24 people	CATEM	2,4 x 6 mts	1
6-	Changing Room for 24 people	CATEM	2,4 x 6 mts	1
7-	Water Tank (1 m ³), wash stations, etc.	CATEM		8 Jgos.
8-	Double portable eco-toilets	CATEM	2,4 x 4 mts	4
9-	Storage container with shelving units	Puerto Guanta	2,4 x 6 mts	12

EQUIPMENT LIST

Nº	DESCRIPTION	MODEL	MAKE	CANTIDAD
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A-. FIBER OPTIC MEASUREMENT AND CERTIFICATION EQUIPMENT

1-.	OTDR Base Unit	FTB-300	Exfo	2
2-.	Singlemode OTDR Module 1310-1550nm 28-26dB	FTB-7223	Exfo	2
3-.	Singlemode OTDR Module 1310-1550nm 35-33dB	FTB-7323	Exfo	1
4-.	Bidirectional Power Meter Module	FTB-3922	Exfo	2
5-.	Optical Talk Set Module	FTB-1402	Exfo	1
6-.	Portable Bidirectional Power Meter	FOT-920	Exfo	2
7-.	Portable Unidirectional Power Meter	FLS-210A	Exfo	1
8-.	Optical Fiber Identifier	FCD-10B	Exfo	2
9-.	Visual Fault Locator	FLS-235B3	Exfo	2
10-.	OTDR Base Unit	FTB-200	Exfo	1
11-.	Quad Singlemode Multimode OTDR Module 1310-1550nm 850-1300nm	FTB-7200D	Exfo	1

B-. STRUCTURED CABLING AND TELEPHONY MEASUREMENT AND CERTIFICATION EQUIPMENT

1-.	Structured Cabling Certification Tester up to Cat-7 (Main Unit)	DTX-1800	Fluke	1
2-.	Structured Cabling Certification Tester up to Cat-7 (Smart Remote)	DTX-1800R	Fluke	1
3-.	Insulation Resistance Tester (Megger) 100-1000V	UNILOP 150	NORMA	3
4-.	Short Circuit Pair Detector	Digital	Progressive	2
5-.	Open Circuit Pair Detector	Digital	Progressive	2
6-.	Circuit Identification Tool	Digital	Progressive	4
7-.	Explosimeter	M.S.A.	2A / Analógico	2

C-. ELECTRICAL WORK EQUIPMENT

1-.	Hi-Pot Tester	PTS-15	Hi Voltage	1
2-.	Transformer Turns Ratio (TTR) Tester	TTR-25	Megger	1
3-.	10.000 Volts: 10,000V Insulation Resistance Tester (Megger)	MIT-1022	Megger	1
4-.	1.000 Volts: 1,000V Insulation Resistance Tester (Megger)	MIT-410	Megger	1
5-.	5,000V Insulation Resistance Tester (Megger)	1623	Fluke	1
6-.	Ground Resistance Tester (Earth Resistivity Meter)	2287	Megger	1
7-.	Ground Resistance Tester (Earth Resistivity Meter)	DTE/4R1500V	A.V.P.	2
8-.	Multimeters	ST7575	ONA	4
9-.	Clamp Meter	1832	Ideal	2
10-.	Dynamometer	DILLON	500 y 1.000 lbs.	2

D-. INSTRUMENTATION WORK EQUIPMENT

1-.	Clamp Meter	335	Fluke	2
2-.	DC Power Supply	6643A	Agilent	1
3-.	Process Calibrator	744	Fluke	1
4-.	Process Calibrator	725	Fluke	1
5-.	Low Pressure Pump	375	Emerson	1
6-.	Low Pressure Pump	700LTP	Fluke	1
7-.	Hydraulic Test Pump	700HTP	Fluke	1
8-.	Pneumatic Pump	700 PTP	Fluke	1
9-.	Pressure Module	700P04	Fluke	1
10-.	Pressure Module	700P24	Fluke	1
11-.	Pressure Module	700P30	Fluke	1
12-.	Pressure Module	700PV3	Fluke	1
13-.	Pressure Module	700PV4	Fluke	1

VEHICLE LIST

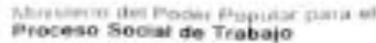
VEHICLE							EQUIPMENT			
Nº	LICENSE PLATE	MAKE	MODEL	TYPE	COLOR	YEAR	MAKE	MODEL	TYPE	COLOR
1	46L BAF	Chevrolet	Cheyenne 350 (4x2)	Flatbed	White	1,999	Effer	35/2S	Pickman 1.25-Ton Truck	Grey
2	29H ABF	Chevrolet	Cheyenne 350 (4x2)	Flatbed	White	2,002	Valman	G-12	Pickman 1.50-Ton Truck	Yellow
3	68F GAW	Chevrolet	Cheyenne 350 (4x2)	Flatbed	White	2,004	Valman	G-12	Pickman 1.50-Ton Truck	Green
4	A91 AL2F	Ford	F-350 (4x4)	Flatbed	White	2,011	Palfinger	PK 4501	Pickman 3.00-Ton Truck	Red
							Palfinger	BB014A	Cesta - 200 Kg.	Yellow
5	823 XHN	Mack	MS 2	Flatbed	Blue/White	1,985	Valman	G-8	Pickman 3.30-Ton Truck	Blue
6	35L BAF	Chevrolet	Kodiak	Flatbed	White	1,999	Palfinger	PK 23080	Pickman 8.20-Ton Truck	Red
							Palfinger	BB014B	Bucket Truck - 200 kg Capacity	White
7	68B MAX	Chevrolet	Kodiak	Flatbed	White	2,002	Valman	GW 071	5-Ton Boom Truck	Red
							Braden	S/M 20 Ton.	Winch	Grey
							Braden	Hidráulico	Dewatering Pump	Grey
8	08F BAB	Mack	MH 613	Tractor Truck	White/Azul	1,984	Palfinger	38502 A	13-Ton Boom Truck	Red
							Remiveca	50 Ton.	Flatbed Trailer	Yellow
							Birmighan	60 Ton.	Lowboy Trailer	Yellow

VEHICLE LIST

Nº	LICENSE PLATE	MAKE	MODELO	TYPE	COLOR	YEAR
9	31W BAK	Chevrolet	Cheyenne 350 (4x2)	Box Van / Personnel Transport	White	2,004
10	A03 A19V	Chevrolet	Cheyenne 350 (4x4)	Box Van / Personnel Transport	White	2,011
11	I3U ABI	Chevrolet	NPR	Box Van / Personnel Transport	White	2,005
12	74S ABI	Chevrolet	NPR	Box Van / Personnel Transport	White	2,005
13	ACS 86I	Toyota	Coaster	Bus / Personnel Transport	White	1,998
14	093 DBD	Chevrolet	C 60	Dump Truck	Brown	1,978
15	A90 AB5Y	Chevrolet	C 60	Flatbed / Cargo Truck	White	1,978
16	18X SAM	IVECO	Cargo Van 4	Box Truck / Cargo	White	1,998
17	86B VAV	Ford	F 150-Triton	Ambulance	White/Red	2,006
18	18F NAH	Hyundai	H 1	Ambulance	White	2,007
19	BAB 99T	Ford	Bronco	Sport Wagon	White	1,995
20	BAK 10E	Chevrolet	Blazer (4x4)	Sport Wagon	Red	1,999
21	AA89 6VC	Toyota	Autana (4x4)	Sport Wagon	Blue	2,006
22	BBJ 42R	Toyota	Meru (4x4)	Sport Wagon	Blue	2,005
23	NAU 69K	Toyota	Meru (4x4)	Sport Wagon	Grey	2,006
24	AFV 75X	Toyota	Terios	Sport Wagon	Grey	2,006
25	AGT 81G	Chevrolet	Captiva	Sport Wagon	Grey	2,007
26	AB8 20HB	Toyota	Fortuner (4x4)	Sport Wagon	White	2,012
27	12W AAD	Chevrolet	LUV (4x4)	Pickup Truck	White	1,998
28	A55 AK6A	Chevrolet	Silverado (4x2)	Pickup Truck	Blue	2,011
29	BAY 75D	Chevrolet	Corsa 2-Door	Coupe	White	2,001
30	BBB 51W	Chevrolet	Corsa -Door	Sedan	White	2,002
31	62I VAV	Chevrolet	Super Carry	Panel van	White	2,006

VEHICLE LIST

Nº	LICENSE PLATE	MAKE	MODEL	TYPE	COLOR	YEAR
32	A16AJ2G	Chevrolet	KODIAK	Flatbed with Hydraulic Tail Lift	White	2,008
33	A07CU8M	IVECO	170E22	Dump Truck	White	2,007



CONSTANCIA DE REGISTRO DE EMPRESA PRESTADORA DE SERVICIO EN CALDERAS

N° REGISTRO EMPPS: REPSC-ANZ-25-0080

Se hace constar que la Entidad de Trabajo: **CATEM** RIF: J-00036002-2, Ubicada en **CALLE 1 O CALLE SAN ANTONIO, LOCAL PARCELA 01 Y 02, NÚMERO 01 Y 02, SECTOR PEQUEÑA Y MEDIANA INDUSTRIA, ZONA INDUSTRIAL MESONES, BARCELONA, ANZOATEGUI**. Número de Teléfono: 0147807040, cuyo objeto es: "... **REALIZACIÓN DE TODA CLASE DE ESTUDIOS, CÁLCULOS, PROYECTOS Y CONSTRUCCIONES DE INSTALACIONES ELECTRICAS O INDUSTRIALES**". Con certificado electrónico de Solvencia Laboral Código de Verificación: YSXWVFDU7 y fecha de vencimiento: 25/03/2026. Profesional Responsable: **RODRIGUEZ ROMERO, ANDERSON JOSÉ**; de Profesión: **INGENIERO MECÁNICO C.I. V-17.393.346** y **CIV. 213.590**, representante legal: **AINOA LISBETH, MAITA PÉREZ** C.I. **V-13164158**; realizó gestiones ante esta institución para actualizar el registro de inscripción como empresa prestadora de servicio en el área de instalación, mantenimiento y reparación de calderas.

Revisada y actualizada la documentación que corre inserta al expediente N° REPSC-ANZ-25-0080, fecha de registro 11/06/2025, se deja constancia que la **COMPAÑÍA ANONIMA TÉCNICA ELECTROMECAÁNICA (CATEM)** se encuentra técnica y legalmente **APTA** ya que cumple con los requisitos establecidos para su registro.

Asimismo, se hace saber que los criterios emanados por el Instituto Nacional de Prevención, Salud y Seguridad Laborales (INPSASEL), para el registro y actualización de la empresa prestadora de servicio en CALDERA, serán evaluados frecuentemente, a través de La Gerencia de Seguridad e Higiene de este Instituto, para aplicar los procedimientos administrativos de acuerdo a las leyes vigentes. En caso de determinar infracciones técnico-administrativa, el incumplimiento de la LOPCYMAT y su Reglamento, se procederá a la aplicación de sanciones administrativas.

Constancia que se emite en Caracas a los 11 días del mes de junio de 2025 CON VIGENCIA DE DOS AÑOS CONTADOS A PARTIR DE LA FECHA DE REGISTRO **11 DE JUNIO DE 2025**.

Atentamente,



Msc. Zulka Coronado Pérez
Presidenta de INPSASEL
Decreto 5.014 G.O. N° 42.978 de fecha 06/10/2004



PRESIDENCIA

Edificio La Guatita, Entorno Logístico de Maderas y Derivados, Piso 5, La Guatita, Caracas
Teléfono: (0212) 906-96-91 / 906-92 / 906-93 www.loguatiqa.gub.ve / 90691loguatiqa@nbbn.gub.ve

CONSTANCIA DE REGISTRO DE PROFESIONAL PRESTADOR DE SERVICIO EN CALDERA

NUMERO DE REGISTRO RPEPSC-MIR-22-0047

Se hace constar que el ciudadano **MÁRQUEZ ALCALÁ, ENRIQUE JOSÉ**, portador de la C.I. N° V- 5.535.603, de Profesión: **INGENIERO MECANICO**, inscrito ante el Colegio de Ingeniero de Venezuela con el C.I.V. N° 45.543, realizó gestiones ante esta institución para inscribirse como profesional en el área de Generadores de Vapor (caldera), en todo lo concerniente a elaboración de proyecto de instalación de caldera, reparación y mantenimiento e inspección

La Gerencia de Seguridad e Higiene del INPSASEL, dando cumplimiento al Artículo 11 de la Gaceta Oficial N° 42 371, de fecha 06 de mayo de 2022, una vez revisada la documentación y constatando que cumple con los requisitos técnicos exigidos por esta, emite la presente **CONSTANCIA DE REGISTRO DE PROFESIONAL PRESTADOR DE SERVICIO**, en el área de caldera.

Los criterios emitidos por el INPSASEL para el Registro del Profesional Prestador de Servicio en Caldera, será evaluado en cualquier momento, a través de sus funcionarios competente en la materia y aplicar sanciones de acuerdo a las leyes vigentes, de comprobar el incumplimiento de lo establecido en la Ley Orgánica de Prevención, Condición y Medio Ambiente de Trabajo, (LOPCYMAT), en el Reglamento de las Condiciones de Higiene y Seguridad en el Trabajo, las normas, criterios técnicos-científico universalmente aceptados en la materia y la revisión técnica de la Gerente Nacional de Seguridad e Higiene del INPSASEL.

Registro que se emite en Caracas a los 16 días del mes de Julio de 2024



Abog. Rusbel J. Rondón M.
Presidente de INPSASEL
Decreto 4.709 G.O. N° 42.421 de fecha 19/07/2022

Constancia válida por dos años.

PRESIDENCIA

Edificio Luz Garden, Entre las Esquinas de Manduca a Ferrenquin, Piso 5, La Candelaria, Caracas
Teléfono: (0212) 506 06 01 / 06 02 / Web: www.inpsasel.gob.ve / 0800-Inpsasel (0800-467 72 73)

PHOTOGRAPHIC SUMMARY

INSPECTION, MAINTENANCE, AND CERTIFICATION OF AUXILIARY BOILERS B-620 A/B/C METOR S.A.



PHOTOGRAPHIC SUMMARY

POWER CABLE REPLACEMENT ASSOCIATED WITH EQUIPMENT U- 610-P3A, P-614C, Z 1701 A/B, P-741A AND HV-8010C AT PLANT 1 METOR S.A.



PHOTOGRAPHIC SUMMARY

PDVSA - CATEM ALLIANCE FOR PRODUCTION INCREASE AND WELL CONNECTION, MORICHAL DISTRICT.



PHOTOGRAPHIC SUMMARY

PDVSA - CATEM ALLIANCE FOR PRODUCTION INCREASE AND WELL CONNECTION, MORICHAL DISTRICT.



PHOTOGRAPHIC SUMMARY

EL FURRIAL THERMOELECTRIC POWER PLANT



PHOTOGRAPHIC SUMMARY

EL FURRIAL THERMOELECTRIC

POWER PLANT



PHOTOGRAPHIC SUMMARY

AGUA SALADA SUBSTATION



PHOTOGRAPHIC SUMMARY

UPGRADES TO THE ELECTRIC POWER DISTRIBUTION SYSTEM IN THE LOS POTOCOS COMMUNITY.



PHOTOGRAPHIC SUMMARY

CONSTRUCTION OF ELECTRICAL SUBSTATION 71-E AND INCREASE IN PUMPING CAPACITY VIA 42" DIAMETER PIPELINE.



PHOTOGRAPHIC SUMMARY

CONSTRUCTION OF ELECTRICAL SUBSTATION 71-E AND INCREASE IN PUMPING CAPACITY VIA 42" DIAMETER PIPELINE



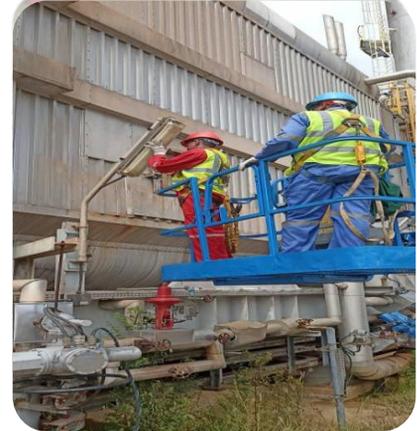
PHOTOGRAPHIC SUMMARY

CONSTRUCTION OF ELECTRICAL SUBSTATION 71-E AND INCREASE IN PUMPING CAPACITY VIA 42" DIAMETER PIPELINE



PHOTOGRAPHIC SUMMARY

"LIGHTING RESTORATION AND SUBSTATION MAINTENANCE SERVICE FOR THE SUPER OCTANOS C.A. PLANT"



"GENERAL ELECTRICAL MAINTENANCE AT PLANT 1 DURING THE PROGRAMMED PLANT SHUTDOWN STA 2024-P1 OF METANOL DE ORIENTE, METOR, S.A."

