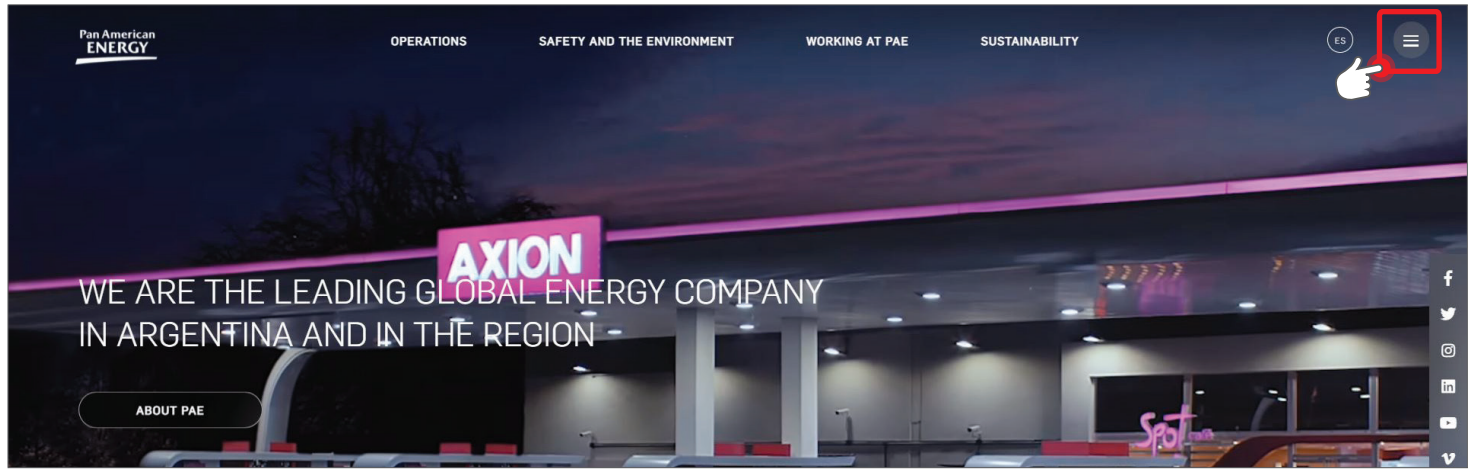


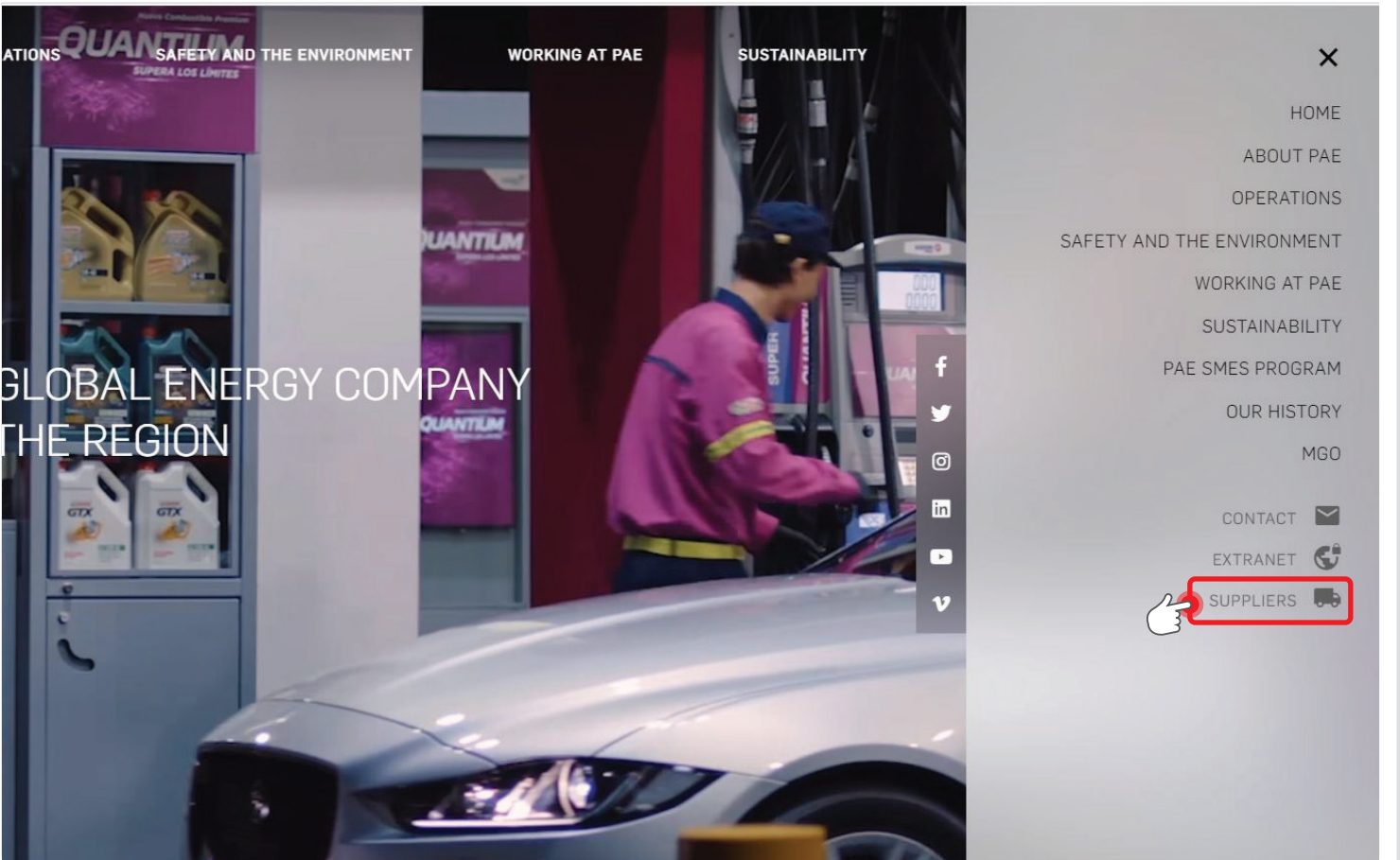
Guide for Prospective PAE Suppliers

To become Prospective Suppliers of Pan American ENERGY SL or register as a Supplier, the Companies will have to complete the following steps:

1. Access PAE webpage www.pan-energy.com and clic on the link to the section Suppliers in the red box as indicated in the image below:

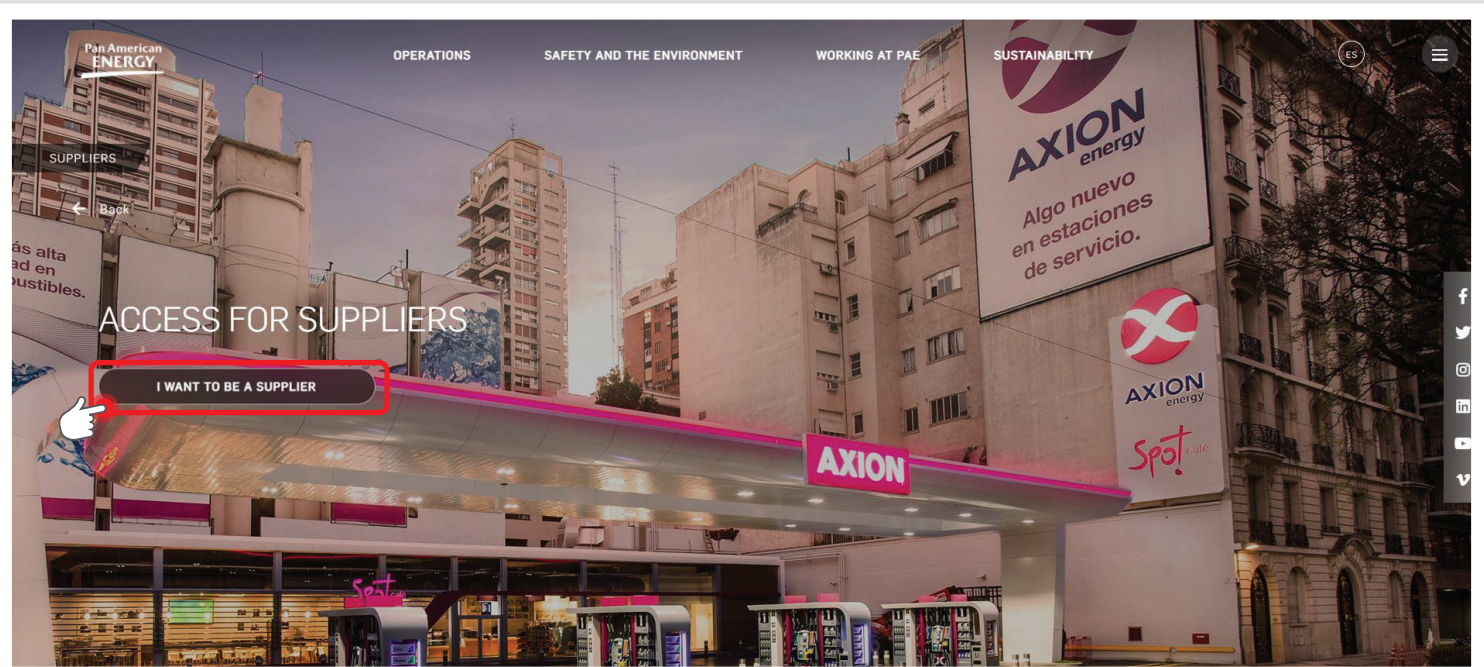


2. In the drop-down menu, clic on "SUPPLIERS":



3.

Once you have accessed to the Suppliers' site, click on **"I WANT TO BE A SUPPLIER"**, as shown in the following image:



4.

Once completing the actions detailed above, a new page will open showing the **"Form for Prospective Suppliers"**. Complete the main details of the company, indicated as obligatory fields with a red asterisk (*), divided into the following sections:

- **General Company Information:** Details to be included: Company Name (enter Business Name as registered), language used, currency used, type of Tax Identification Number, tax type, Gross Income number, Address, telephone number, etc.
- **Contact details:** Title (**obligatory field although not indicated with an ***), First name, Last name, telephone number, e-mail, etc.
- **Product Categories:** It means the service and/or product provided by the Company. The Available activities/products are listed in Annex 1 – Product Categories, at the end of this guide.
- **Annexes:** The form admits the attachment of annexes (brochures, presentation folder, etc.) the Company desires to share with PAE to clarify or further specify their activities.
- **Comments:** Free text-entry field to make comments deemed necessary.
- **Data Privacy Statement:** field with obligatory validation at the bottom, explaining PAE's commitment to the confidentiality of the data provided by the Company.

IMPORTANT:

- ALL FIELDS SHALL BE COMPLETED IN CAPITAL LETTERS WITHOUT EXCEPTION.
- For Companies located out of Argentina, please indicate "Foreign Supplier" under "Tax Type". Additionally, under "Gross Income Number", indicate "NA" (Non-applicable).
- In the case that, after entering all the data and clicking "send", there appears a text that reads "The Tax Identification Number indicated is already registered", please contact altas@pae.atencionproveedores.com.ar and provide the Tax Identification Number of your company.

Images of the Form for Prospective Suppliers are shown below:

Form for Prospective Suppliers

Complete the form below to register your company as a prospective supplier for Pan American Energy SL, Sucursal Argentina. Our Procurement Supply Chain Management Department will evaluate the information provided and your company will be eligible for future contracts.

Thank you
Pan American Energy SL, Sucursal Argentina
Procurement Supply Chain Management
* Fields marked with an asterisk are mandatory

General Company Information

<p>* Company Name: <input type="text"/></p> <p>* Language: <input type="text" value="English"/></p> <p>Homepage: <input type="text"/></p> <p>Tax Jurisdiction Code: <input type="text"/></p> <p>* Currency: <input type="text" value="Argentine Peso"/></p> <p>* Title: <input type="text" value="Company"/></p> <p>* Tax Number Type: <input type="text" value="C.U.I.T."/></p> <p>* Tax Number: <input type="text"/></p> <p>* Tax type: <input type="text" value="Spec. person responsible for"/></p> <p>* Gross Incomes Number: <input type="text"/></p>	<p>Address</p> <p>* Country: <input type="text"/></p> <p>* Region: <input type="text"/></p> <p>* District: <input type="text"/></p> <p>* City: / * Postal Code: <input type="text"/> <input type="text"/></p> <p>* House Number: / * Street: <input type="text"/> <input type="text"/></p> <p>Building: / Floor: / Room: <input type="text"/> <input type="text"/> <input type="text"/></p>	<p>Communication</p> <p>* Phone Number: / Extension: <input type="text"/> <input type="text"/></p> <p>Fax Number: / Extension: <input type="text"/> <input type="text"/></p> <p>* E-Mail: <input type="text"/></p>
---	--	---

Contact Details

<p>Title: <input type="text"/></p> <p>* First Name: <input type="text"/></p> <p>* Last Name: <input type="text"/></p> <p>Academic Title: <input type="text"/></p> <p>Department: <input type="text"/></p> <p>Function: <input type="text"/></p>	<p>* Phone Number: / Extension: <input type="text"/> <input type="text"/></p> <p>Fax Number: / Extension: <input type="text"/> <input type="text"/></p> <p>* E-Mail: <input type="text"/></p> <p>* Language: <input type="text" value="English"/></p> <p>* Country: <input type="text"/></p>
---	--

Product Categories *

THE CATEGORIES CHOSEN AND SUBSCRIBED BELOW WILL BE TAKEN INTO ACCOUNT FOR FUTURE PURCHASES

Attachments

Description:

No file chosen.

Comment

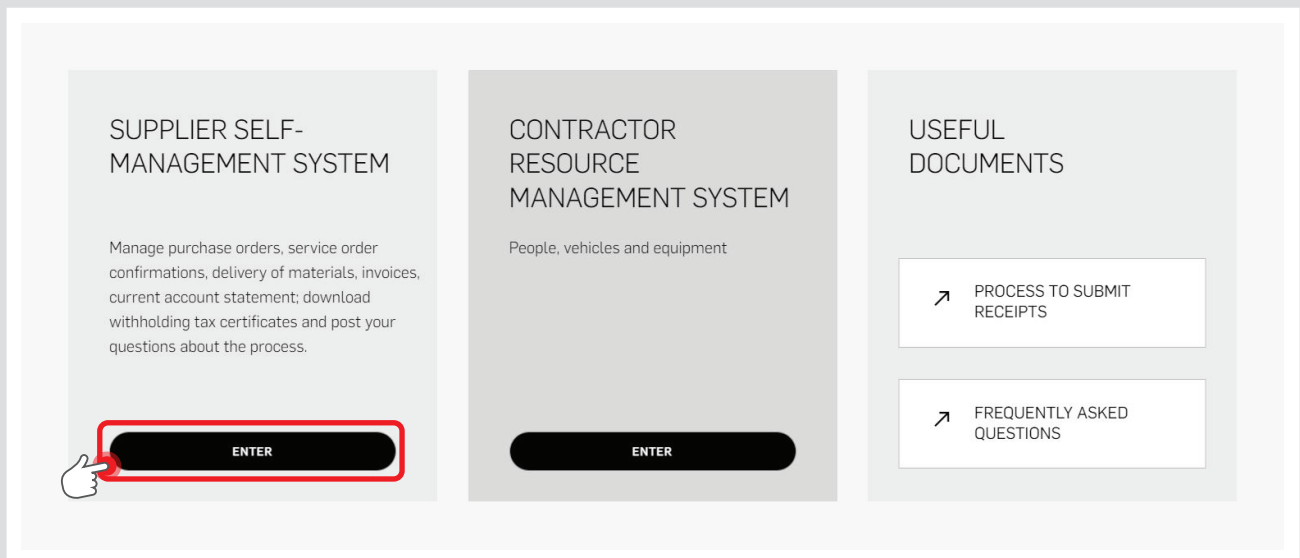
Data Privacy Statement

PAE hereby informs the Users of this Internet portal of the following Terms and Conditions, so that they may decide, voluntarily and in full exercise of their own free will, whether they choose to provide the data required herein. The "Form for Prospective Suppliers" is intended for the User to be considered as a possible candidate to satisfy PAE's future requirements for products, services and other similar concepts, in case PAE so decides and communicates such decision to the User. PAE hereby guarantees that the Data provided will be kept confidential and will be processed consistently with the purpose for which they have been collected. PAE may transfer the Data provided by the User to any of the companies in its group as long as such companies process the Data as mentioned above. The User declares that the Data provided to PAE when registering in this portal are true, accurate, up to date, and complete. The User undertakes to inform PAE of any change in the Data provided. These Terms and Conditions shall be governed by the laws of the Argentine Republic. In the event that PAE and the User are unable to settle their disagreements in good faith and under a principle of mutual understanding and cooperation, they agree to be bound by the jurisdiction of the competent Courts of the Autonomous City of Buenos Aires for settling their conflicts, and they expressly waive any other jurisdiction that may apply.

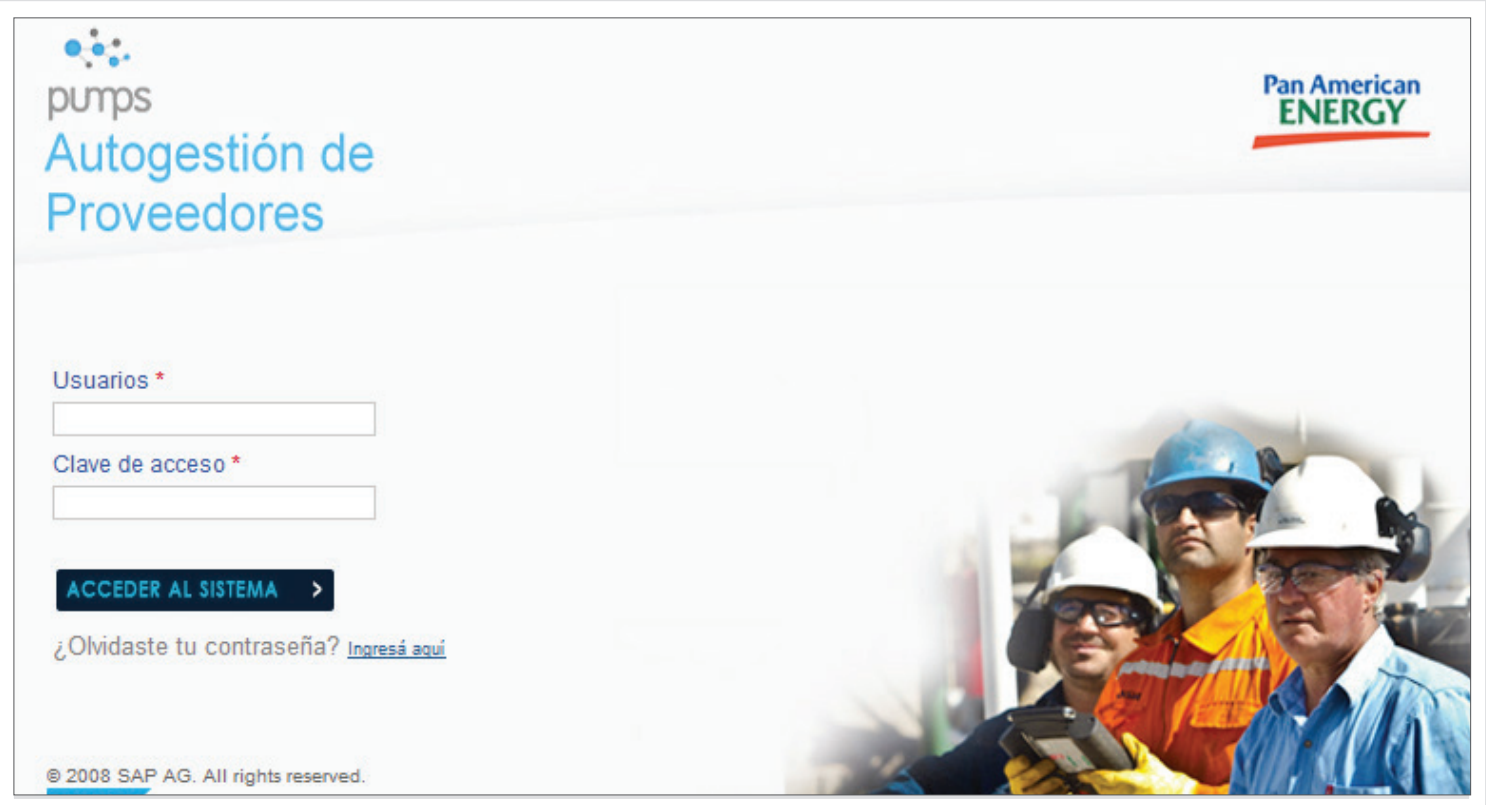
5. Once all the form has been completed, clic “Send” (as indicated in the image above).
6. After sending the form, PAE Suppliers Development and Management Department receives the data and authorizes the company as a Prospective Supplier. Once all these steps have been completed, your Company will become part of the prospective supplier portfolio of Pan American Energy.
7. When completing this step, the Company will receive 2 (two) e-mails; the first one indicating the assigned Username (S3XXXXX), and the second one with the password. To access, click on the Supplier Self-Management System link provided below.


IMPORTANT:

- Please, do not forget to check the Spam folder.
- For suppliers belonging to Mexico, registration ends in step number 6 (six), without the need to use the portal as mentioned below.



8. By clicking on the link, a screen will prompt you to log in as a prospective supplier. When logging in for the first time, enter the Username indicated in the first e-mail, and the “Password” provided in the second e-mail.





pumps

Autogestión de Proveedores

Pan American ENERGY

Usuarios *

Clave de acceso *

ACCEDER AL SISTEMA >

¿Olvidaste tu contraseña? [Ingresá aquí](#)

© 2008 SAP AG. All rights reserved.

9.

If you access **for the first time**, you will be requested to Change the Password in order to ensure the safety of the information provided by your Company.

10.

Once completed the step above, you may access and operate as a Prospective Supplier, being in contact with the Suppliers Development and Management Department.

IMPORTANT:

In case you forget/lose the password and/or username, please contact
altas@pae.atencionproveedores.com.ar

11.

If you have any question, please contact PAE Suppliers Development and Management Department of PAE to: altas@pae.atencionproveedores.com.ar



Annex 1

Product Categories

For the proper search and allocation of product category in the Registration of prospective suppliers, identify the activity or product offered by your Company under MATERIAL/SERVICE as indicated below. You can also search by inserting a keyword in the browser.

Selection of Product Categories

Select the product categories you can supply

Find:

Available Product Categories

Category Name
<input type="checkbox"/> <input type="button" value="⊟"/> 01 Materials Catalog
<input type="checkbox"/> <input type="button" value="⊟"/> 02 Services Catalog

1.

First, identify whether a Material or Service is offered. Click-open on the relevant drop-down option to see the groups in each category and choose the desired option. Example:

Available Product Categories

Category Name
<input type="checkbox"/> <input type="button" value="⊟"/> 01 Materials Catalog
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01 Drilling tools and machinery
<input checked="" type="checkbox"/> <input type="button" value="⊟"/> 01_01_01 Drill string
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_02 Mud tanks
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_03 Extraction tools
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_04 Fishing tools
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_05 Drilling tools
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_06 Injection heads
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_07 Control Units
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_08 Strings
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_09 Logging instrument
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_10 Drilling recorders
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_11 Upwell control equipment
<input type="checkbox"/> <input type="button" value="⊟"/> 01_01_12 Mud mixers, shakers, and desanders

#	Service Group	#	Detail
2_1	Upstream Operations	2_1_1	Solids control
		2_1_2	Derrick equipment rig-up/transport/rig-down
		2_1_3	Casing service (Handling, Torquing, and Casing Drilling)
		2_1_4	Drilling Service
		2_1_5	Workover and Pulling Services
		2_1_6	Geology, geological processing and geophysics
		2_1_7	Drilling fluids, Completion, and Workover
		2_1_8	Downhole motor, directional and vertical control
		2_1_9	Logging - Punched tube well
		2_1_10	Coild Tubing
		2_1_11	Seismic
		2_1_12	Downhole tools
		2_1_13	Fracturing and Stimulation
		2_1_14	Fishing tool service
		2_1_15	Bit service
		2_1_16	Wellhead service
		2_1_17	Cementation and pumping
		2_1_18	Selective Slickline - Wireline
		2_1_19	Open well logging
		2_1_20	Physical measurements
		2_1_21	Drilling systems (Individual Pumping Devices or Electrical Submersible Pumping)
		2_1_22	Well abandonment
		2_1_23	Surface equipment rental
		2_1_24	Peripheral Drilling Services, workover y Completion
		2_1_25	Certification of reservations
		2_1_26	Sensorization/ERD/Transmission
		2_1_27	UAR y Fracstack
		2_1_28	Injection of gels/BW/Tracers
2_2	Works	2_2_1	Construction work
		2_2_2	Electricity and instrumentation work
		2_2_3	Mechanical and electromechanical work
		2_2_4	Assembly of Piping and prefabricated elements
		2_2_5	Comprehensive work
		2_2_6	Road work
		2_2_7	Refurbishing and architecture
		2_2_8	Soil movement and road maintenance
		2_2_9	Construction and installation of lines and ducts
		2_2_10	Construction of Transformer Stations
		2_2_11	Concrete Prefabs
		2_2_12	Steering
		2_2_13	Metal sructure and supports
		2_2_14	Exploration Service
		2_2_15	Isolation and Tracing
		2_2_16	Chemical Anchors
		2_2_17	Mud Pool Casing
2_3	Operation and Maintenance of Construction work	2_3_1	Construction work maintenance
		2_3_2	Repaving and patching
		2_3_3	Building maintenance

#	Service Group	#	Detail
2_4	Operation and Maintenance of Electricity and Instrumentation	2_4_1	Electrical maintenance
		2_4_2	Instrument maintenance
		2_4_3	Transformer servicing
		2_4_4	Substation maintenance
		2_4_5	E&I instrument calibration
		2_4_6	Maintenance of breakers
		2_4_7	Maintenance of control systems
		2_4_8	Operation and maintenance in energy systems
2_5	Mechanical Operation and Maintenance	2_5_1	General mechanical maintenance
		2_5_2	Oil and Gas Pipelines
		2_5_3	Piping Maintenance
		2_5_4	Mechanical assembly
		2_5_5	Repair and cleaning of burners and derrick
		2_5_6	Inspection, servicing, and cleaning of boilers
		2_5_7	Repair of tanks
		2_5_8	Leak sealing
		2_5_9	Repair and reclassification of pressure vessels
		2_5_10	Electromechanical assembly
		2_5_11	Mechanical construction and installation
		2_5_12	Installation and maintenance of refractories
		2_5_13	Third-party workshops: Repair and Maintenance
2_6	Operation and Maintenance of Equipment	2_6_1	Installation and maintenance of pumps
		2_6_2	Installation and maintenance of engines
		2_6_3	Installation and maintenance of auxiliary equipment
		2_6_4	Seal repair
2_7	Predictive and technical maintenance	2_7_1	Non-destructive testing
		2_7_2	Rotating parts condition monitoring
		2_7_3	Lubrication analysis
		2_7_4	Cathodic and anticorrosive protection
		2_7_5	Tank calibration
		2_7_6	Maintenance of laboratory equipment
		2_7_7	Interference Detection
2_8	Industrial Cleaning	2_8_1	Industrial Cleaning
		2_8_2	Hydrokinetics cleaning of exchangers and/or equipment
		2_8_3	Chemical Cleaning
		2_8_4	Cleaning of API separators
		2_8_5	Tank cleaning
2_9	Plant general operations	2_9_1	Coke movement
		2_9_2	Operation and maintenance of distribution terminals
		2_9_3	Support to commissioning and start-up
		2_9_4	Operation and maintenance of airfields
		2_9_5	Diversions
		2_9_6	Provisión of industrial gases

#	Service Group	#	Detail
2_10	General services of Operation and Maintenance	2_10_1	Firefighting system
		2_10_2	Fireproofing Service
		2_10_3	Geotechnical studies
		2_10_4	Supervision of Works
		2_10_5	Fire suppression
		2_10_6	Industrial Paint
		2_10_7	Topography
		2_10_8	Empty truck service
		2_10_9	Maintenance of green areas
		2_10_10	Tracing System
		2_10_11	Isolation System
		2_10_12	Emergency Response Service - Moorings
		2_10_14	Heat treatments
2_11	Operation and Maintenance of Petrol Stationso	2_11_1	General maintenance in Petrol Stations
		2_11_2	Maintenance of CNG compressors
		2_11_3	Installation of Petrol Station pumps
		2_11_4	Installation of Petrol Station dispensers
2_12	Transport	2_12_1	Transport of Merchandise for Resale
		2_12_2	Solids transport general cargo
		2_12_3	Solids bulk transport
		2_12_4	Fuel transport
		2_12_5	Transport of lubes
		2_12_6	Transport of general fluids
		2_12_7	Special transport - overdimensioned
		2_12_8	Transport by helicopter
		2_12_9	Maintenance of vehicles
2_13	Support services	2_13_1	Inspection - repair of materials
		1_13_2	Service of crane and hoisting equipment
		2_13_2	Rental of generation and compression equipment
		1_13_3	Scaffolding service
		2_13_3	Crews and support resources
1_13_4	Service of portable toilettes		
2_14	Environment and Health	2_14_1	Environmental and/or remediation studies
		2_14_2	Waste treatment and collection
		2_14_3	Hazardous waste treatment and collection
		2_14_4	Occupational health and medicine
		2_14_5	Provision of drinking water
		2_14_6	Pest control

#	Service Group	#	Detail
2_15	IT	2_15_1	Software and/or hardware systems
		2_15_2	Service of wiring of premises
		2_15_3	Support and maintenance of computer equipment
		2_15_4	Call center service
		2_15_5	IT security
		2_15_6	IT equipment rental
		2_15_7	Process Consultancy
		2_15_8	Software consultancy
		2_15_9	Machine Learning Consultancy
		2_15_10	RPA Consultancy
		2_15_11	SAP Consultancy
		2_15_12	Digitalization service
		2_15_13	Printing service
		2_15_14	Datacenter and Infrastructure
		2_15_15	Onsite and Remote Support
		2_15_16	HW transport
		2_15_17	Microcomputing
		2_15_18	Communications system
2_16	Professional services	2_16_1	Monitoring / Inspection
		2_16_2	Industrial and works consultancy
		2_16_3	Basic and detail engineering
		2_16_4	Authorizations and certifications
		2_16_5	Counselling, consultancy, and general support
		2_16_6	Training
		2_16_7	Notary/Legal
		2_16_8	Audits to suppliers
		2_16_9	Professional fees
		2_16_10	Imports / Exports - international supply chain
		2_16_11	Personnel Search and Selection
		2_16_12	Safety, Health and/or Environmental Consultancy
2_17	General Services	2_17_1	Warehouses
		2_17_2	Rentals
		2_17_3	Courier
		2_17_4	Recreation - Sports
		2_17_5	Property security
		2_17_6	Stationery
		2_17_7	Marketing - Media
		2_17_8	Education associations - Foundations
		2_17_9	Subscriptions
2_18	Services for employees	2_18_1	Catering and lunch-box service
		2_18_2	Offshore food provision
		2_18_3	Transportation of personnel
		2_18_4	Cleaning service
		2_18_5	Accommodation

Item	Group	#	Material/Service
1_1	Drilling tools and machinery	1_1_1	Drill string
		1_1_2	Mud tanks
		1_1_3	Extraction tools
		1_1_4	Fishing tools
		1_1_5	Drilling tools
		1_1_6	Injection heads
		1_1_7	Control Units
		1_1_8	Strings
		1_1_9	Logging instrument
		1_1_10	Drilling recorders
		1_1_11	Upwell control equipment
		1_1_12	Mud mixers, shakers, and desanders
1_2	Materials and equipment for oil production	1_2_1	1_2_1 Rods and accessories
		1_2_2	1_2_2 Injection equipment
		1_2_3	1_2_3 Packers
		1_2_4	1_2_4 Sucker rod
		1_2_5	1_2_5 Packers
		1_2_6	1_2_6 Individual pumping devices
1_3	Casing Elements and Fittings	1_3_1	Plugs
		1_3_2	Shoes, collars, rings, and accessories
		1_3_3	Packers
		1_3_4	Centralizer
		1_3_5	Casing floating device
1_4	Bits	1_4_1	Bits
		1_4_2	Bit components
1_5	Wellheads	1_5_1	Upwell structure
		1_5_2	Gate valves for
		1_5_3	Wellhead accessories
		1_5_4	Flow control and regulating valve
		1_5_5	Wellheads
1_6	OCTG - Well tubing	1_6_1	Casing
		1_6_2	Tubing
1_7	General Tubular materials	1_7_1	Pipings
		1_7_2	Special pipings
		1_7_3	Casing pipings
1_8	Drilling muds	1_8_1	Muds
		1_8_2	Cementing fluids
		1_8_3	Cements
		1_8_4	Additives
1_9	Sand	1_9_1	Natural sand
		1_9_2	Synthetic sand
1_10	Tubing fittings	1_10_1	Couplings
		1_10_2	Flanges
		1_10_3	Pup joint
		1_10_4	Nipples
1_11	Motors	1_11_1	Electric motors
		1_11_2	Internal combustion motors
		1_11_3	Industrial motors
1_12	Spare parts and accessories for engines	1_12_1	Belts
		1_12_2	Joints
		1_12_3	Magnets
		1_12_4	Bearings
		1_12_5	O-rings
		1_12_6	Bushings
		1_12_7	Pulleys
		1_12_8	Alternators
1_13	Pumps	1_13_1	Electric pumps
		1_13_2	Deep well pumps
		1_13_3	Mechanical pumps
		1_13_4	Electric submersible pumps
		1_13_5	Centrifugal pumps
		1_13_6	Screw pump
		1_13_7	Reciprocating pump

Item	Group	#	Material/Service
1_14	Spare-parts and accessories for pumps	1_14_1	Disks
		1_14_2	Gaskets
		1_14_3	Bearings
		1_14_4	Bushings
		1_14_5	O-rings
1_15	Valves	1_15_1	Traps
		1_15_2	Globe valves
		1_15_3	Ball valves
		1_15_4	Check valve
		1_15_5	Check valve
		1_15_6	Blank valve
		1_15_7	Safety valve
		1_15_8	Valve accessories
1_16	Measuring instruments and tools	1_16_1	Flowmeter
		1_16_2	Manometer
		1_16_3	Sensors
		1_16_4	Dynamometers
		1_16_5	Temperature gauges
1_17	Rigs, derricks, and ramps	1_17_1	Ramps
		1_17_2	Stairs
		1_17_3	Platforms
		1_17_4	Substructures
		1_17_5	Brackets
1_18	Equipment and auxiliary fittings for the plant	1_18_1	Heat exchangers
		1_18_2	Tanks
		1_18_3	Boilers
		1_18_4	Chemical injectors
		1_18_5	Spare parts for plant equipment
		1_18_6	Compressors
		1_18_7	Pressure vessels
		1_18_8	Boilers - Burners
		1_18_9	Spacers
1_19	Filters	1_19_1	Oil filters
		1_19_2	Water filters
1_20	Cables and electrical accessories	1_20_1	Cables
		1_20_2	Fuses
		1_20_3	Resistors
		1_20_4	Electrodes
		1_20_5	Wires
		1_20_6	Breakers
		1_20_7	Electrical conductors
1_21	Electrical Equipment and Boards	1_21_1	Generators
		1_21_2	Electric boards
		1_21_3	Transformers
		1_21_4	Coils
		1_21_5	Electric instruments
		1_21_6	Electric commands
		1_21_7	Cathodic protection
		1_21_8	Batteries
1_22	Hardware	1_22_1	Stud
		1_22_2	Bearings
		1_22_3	Clamp
		1_22_4	Crossheads
		1_22_5	Bolt
		1_22_6	General hardware elements
1_23	Small tools and machinery in general	1_23_1	Clamping tools
		1_23_2	Cutting tools
		1_23_3	Hydraulic tools
		1_23_4	Pneumatic tools
		1_23_5	Wedges
		1_23_6	Small tools
		1_23_7	Lids or coatings
		1_23_8	Socket wrench
		1_23_9	Welders
		1_23_10	Drills

Item	Group	#	Material/Service
1_24	Fluid and gas distribution elements	1_24_1	Hoses
		1_24_2	Flanges
		1_24_3	Connectors
		1_24_4	Faucets
1_25	Insulating Material	1_25_1	Insulating material
		1_25_2	Joints
		1_25_3	Gaskets
		1_25_4	Refractories
1_26	Fuels, additives, and lubes	1_26_1	Chemical additives
		1_26_2	Diluents
		1_26_3	Fuels
		1_26_4	Oils and lubes
		1_26_5	Grease
1_27	Chemicals	1_27_1	Chemical solvent
		1_27_2	Solutions
		1_27_3	Chemical compounds
		1_27_4	Gasses
1_28	Paints	1_28_1	Paints
		1_28_2	Varnish
		1_28_3	Lacquer
		1_28_4	Sprays
		1_28_5	Enamel
1_29	Firefighting equipment and elements	1_29_1	Fire extinguisher
		1_29_2	Firefighting equipment
		1_29_3	Alarms, signals, and automatic systems
		1_29_4	Fire alarms
1_30	Cranes, hoisting, and anchorage	1_30_1	Cranes
		1_30_2	Hoisting and anchor elements
		1_30_3	Rigs
1_31	Packaging materials, containers and storage	1_31_1	Bottles
		1_31_2	Pallets
		1_31_3	Bags
		1_31_4	Packaging materials
		1_31_5	Containers
1_32	Construction material	1_32_1	Sheets
		1_32_2	Concrete and/or cement
		1_32_3	Structural products for construction works
		1_32_4	Boards
		1_32_5	General construction materials
1_33	Vehicles, Trailers, and vehicle equipment and spare parts	1_33_1	Vehicles over 5 tons
		1_33_2	Trailers
		1_33_3	Self-propelled equipment
		1_33_4	Auto parts
1_34	Personal Protection Equipment	1_34_1	Work clothing
		1_34_2	Fire resistant clothing
		1_34_3	Safety footwear
		1_34_4	Safety helmets
		1_34_5	Gloves
		1_34_6	Sensors
1_35	Food and beverages	1_35_1	Food and beverages
1_36	Furniture and accesories	1_36_1	Office furniture
		1_36_2	Lamps
		1_36_3	Cabinets
		1_36_4	Industrial furniture
		1_36_5	General furniture
		1_36_6	Seats/chairs
		1_36_7	Shelves
1_37	Signs and Signalling	1_37_1	Signs and Banners
		1_37_2	Industrial signage
		1_37_3	Light fittings for signage
		1_37_4	Reflective signs
1_38	Stationery	1_38_1	Stationery
		1_38_2	Tonnery

Item	Group	#	Material/Service
1_39	Office machinery and equipment	1_39_1	Notebooks and Desktops
		1_39_2	Phone, Mobile, and Accessories
		1_39_3	Desktop accessories
		1_39_4	Computer components
		1_39_5	Connection cables
		1_39_6	Monitors, TV sets, and Supports
		1_39_7	Printers and consumables
		1_39_8	External drives
		1_39_9	UPS
		1_39_10	Headset
1_40	Equipment for communication systems	1_40_1	Routers
		1_40_2	Cables (signal, connection, optical)
		1_40_3	Videoconference equipment
		1_40_4	Radio equipment
		1_40_5	Telephone accessories
		1_40_6	Storage, Servers, and Accessories
		1_40_7	Telecommunications - Antennas
		1_40_8	Digital readers
1_41	Laboratory equipment and supplies	1_41_1	Scales
		1_41_2	Laboratory supplies
		1_41_3	Measuring and testing instruments
		1_41_4	Laboratory equipment
1_42	Convenience and recreation items	1_42_1	Toy shop items
		1_42_2	Cleaning items
		1_42_3	Convenience store
1_43	Medical and pharmaceutical products	1_43_1	Medical equipment
		1_43_2	Medicines
1_44	Appliances	1_44_1	Air conditioner
		1_44_2	Heating
		1_44_3	Cooling system
		1_44_4	Appliances spare parts
		1_44_5	Stoves
1_45	Miscellaneous Materials	1_45_1	Plastic materials
		1_45_2	Metals materials
		1_45_3	Non-metal materials
2_1	Upstream Operations	2_1_1	Solids control
		2_1_2	Derrick equipment rig-up/transport/rig-down
		2_1_3	Casing service (Handling, Torquing, and Casing Drilling)
		2_1_4	Drilling Service
		2_1_5	Workover and Pulling Services
		2_1_6	Geology, geological processing and geophysics
		2_1_7	Drilling fluids, Completion, and Workover
		2_1_8	Downhole motor, directional and vertical control
		2_1_9	Logging - Punched tube well
		2_1_10	Coild Tubing
		2_1_11	Seismic
		2_1_12	Downhole tools
		2_1_13	Fracturing and Stimulation
		2_1_14	Fishing tool service
		2_1_15	Bit service
		2_1_16	Wellhead service
		2_1_17	Cementation and pumping
		2_1_18	Selective Slickline - Wireline
		2_1_19	Open well logging
		2_1_20	Physical measurements
		2_1_21	Drilling systems (Individual Pumping Devices or Electrical Submersible Pumping)

Item	Group	#	Material/Service
2_2	Works	2_2_1	Construction work
		2_2_2	Electricity and instrumentation work
		2_2_3	Mechanical and electromechanical work
		2_2_4	Assembly of Piping and prefabricated elements
		2_2_5	Comprehensive work
		2_2_6	Road work
		2_2_7	Refurbishing and architecture
		2_2_8	Soil movement and road maintenance
		2_2_9	Construction and installation of lines and ducts
		2_2_10	Construction of Transformer Stations
		2_2_11	Concrete Prefabs
		2_2_12	Steering
		2_2_13	Metal structure and supports
		2_2_14	Exploration Service
		2_2_15	Isolation and Tracing
		2_2_16	Chemical Anchors
		2_2_17	Mud Pool Casing
2_3	Operation and Maintenance of Construction work	2_3_1	Construction work maintenance
		2_3_2	Repaving and patching
		2_3_3	Building maintenance
2_4	Operation and Maintenance of Electricity and Instrumentation	2_4_1	Electrical maintenance
		2_4_2	Instrument maintenance
		2_4_3	Transformer servicing
		2_4_4	Substation maintenance
		2_4_5	E&I instrument calibration
		2_4_6	Maintenance of breakers
		2_4_7	Maintenance of control systems
		2_4_8	Operation and maintenance in energy systems
2_5	Mechanical Operation and Maintenance	2_5_1	General mechanical maintenance
		2_5_2	Oil and Gas Pipelines
		2_5_3	Piping Maintenance
		2_5_4	Mechanical assembly
		2_5_5	Repair and cleaning of burners and derrick
		2_5_6	Inspection, servicing, and cleaning of boilers
		2_5_7	Repair of tanks
		2_5_8	Leak sealing
		2_5_9	Repair and reclassification of pressure vessels
		2_5_10	Mechanical assembly
		2_5_11	Mechanical construction and installation
		2_5_12	Installation and maintenance of refractories
		2_5_13	Third-party workshops: Repair and Maintenance
2_6	Operation and Maintenance of Equipment	2_6_1	Installation and maintenance of pumps
		2_6_2	Installation and maintenance of engines
		2_6_3	Installation and maintenance of auxiliary equipment
		2_6_4	Seal repair
2_7	Predictive and technical maintenance	2_7_1	Non-destructive testing
		2_7_2	Rotating parts condition monitoring
		2_7_3	Lubrication analysis
		2_7_4	Cathodic and anticorrosive protection
		2_7_5	Tank calibration
		2_7_6	Maintenance of laboratory equipment
		2_7_7	Interference Detection
2_8	Industrial Cleaning	2_8_1	Industrial Cleaning
		2_8_2	Hydrokinetics cleaning of exchangers and/or equipment
		2_8_3	Chemical Cleaning
		2_8_4	Cleaning of API separators
		2_8_5	Tank cleaning
2_9	Plant general operations	2_9_1	Coke movement
		2_9_2	Operation and maintenance of distribution terminals
		2_9_3	Support to commissioning and start-up
		2_9_4	Operation and maintenance of airfields
		2_9_5	Diversions
		2_9_6	Provision of industrial gases

Item	Group	#	Material/Service
	General services of Operation and Maintenance	2_10_1	Firefighting system
		2_10_2	Fireproofing Service
		2_10_3	Geotechnical studies
		2_10_4	Supervision of Works
		2_10_5	Fire suppression
		2_10_6	Industrial Paint
		2_10_7	Topography
		2_10_8	Empty truck service
		2_10_9	Maintenance of green areas
		2_10_10	Tracing System
		2_10_11	Isolation System
		2_10_12	Emergency Response Service - Moorings
		2_10_13	Portable toilette service
	Operation and Maintenance of Petrol Stationso	2_11_1	General maintenance in Petrol Stations
		2_11_2	Maintenance of CNG compressors
		2_11_3	Installation of Petrol Station pumps
		2_11_4	Installation of Petrol Station dispensers
	Transport	2_12_1	Transport of Merchandise for Resale
		2_12_2	Solids transport general cargo
		2_12_3	Solids bulk transport
		2_12_4	Fuel transport
		2_12_5	Transport of lubes
		2_12_6	Transport of general fluids
		2_12_7	Special transport - overdimensioned
		2_12_8	Transport by helicopter
		2_12_9	Maintenance of vehicles
	Support services	2_13_1	Inspection - repair of materials
		2_13_2	Service of crane and hoisting equipment
		2_13_3	Rental of generation and compression equipment
		2_13_4	Scaffolding service
		2_13_5	Crews and support resources
		2_13_6	Service of portable toilettes
	Environment and Health	2_14_1	Environmental and/or remediation studies
		2_14_2	Waste treatment and collection
		2_14_3	Hazardous waste treatment and collection
		2_14_4	Occupational health and medicine
		2_14_5	Provision of drinking water
		2_14_6	Pest control
2_15	IT	2_15_1	Software and/or hardware systems
		2_15_2	Service of wiring of premises
		2_15_3	Support and maintenance of computer equipment
		2_15_4	Call center service
		2_15_5	IT security
		2_15_6	IT equipment rental
		2_15_7	Process Consultancy
		2_15_8	Software consultancy
		2_15_9	Machine Learning Consultancy
		2_15_10	RPA Consultancy
		2_15_11	SAP Consultancy
		2_15_12	Digitalization service
		2_15_13	Printing service
		2_15_14	Datacenter and Infrastructure
		2_15_15	Onsite and Remote Support
		2_15_16	HW transport
		2_15_17	Microcomputing
		2_15_18	Communications system

Item	Group	#	Material/Service
2_16	Professional services	2_16_1	Monitoring / Inspection
		2_16_2	Industrial and works consultancy
		2_16_3	Basic and detail engineering
		2_16_4	Authorizations and certifications
		2_16_5	Counselling, consultancy, and general support
		2_16_6	Training
		2_16_7	Notary/Legal
		2_16_8	Audits to suppliers
		2_16_9	Professional fees
		2_16_10	Imports / Exports - international supply chain
		2_16_11	Personnel Search and Selection
		2_16_12	Safety, Health and/or Environmental Consultancy
2_17	General Services	2_17_1	Warehouses
		2_17_2	Rentals
		2_17_3	Courier
		2_17_4	Recreation - Sports
		2_17_5	Property security
		2_17_6	Stationery
		2_17_7	Marketing - Media
		2_17_8	Education associations - Foundations
		2_17_9	Subscriptions
2_18	Services for employees	2_18_1	Catering and lunch-box service
		2_18_2	Offshore food provision
		2_18_3	Transportation of personnel
		2_18_4	Cleaning service
		2_18_5	Accommodation