

CAPABILITY 03 / 27

Downstream – Refining, Petrochemical & Processing

Reliable supply for refinery and process uptime.



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OVERVIEW

Downstream transforms crude oil and gas into fuels, chemicals and finished products in refineries and petrochemical plants. COTI supports these facilities with rotating and static equipment, valves, instruments, electrical systems and spare-parts packages that protect unit uptime.

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3.1 Process pumps, compressors, turbines, motors, gearboxes and...

SUPPLY SCOPE

Process pumps, compressors, turbines, motors, gearboxes and rotating-equipment spares.

DEFINITION

Rotating equipment includes process pumps, compressors, steam and gas turbines, electric motors and gearboxes. These machines run continuously, and their spares (seals, bearings, couplings, impellers) are essential to avoid unplanned shutdowns.



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3.2 Heat exchangers, boilers/heaters, pressure vessels, separators, filters,...

SUPPLY SCOPE

Heat exchangers, boilers/heaters, pressure vessels, separators, filters, scrubbers and process packages.

DEFINITION

Static equipment does not move: heat exchangers transfer heat between fluids, boilers and fired heaters produce steam or heat, pressure vessels, separators, filters and scrubbers hold and treat fluids, and process packages combine them on skids.

3.3 Manual, actuated, control and safety/relief valves with associated...

SUPPLY SCOPE

Manual, actuated, control and safety/relief valves with associated accessories.

DEFINITION

Manual valves are operated by hand; actuated valves are driven by an actuator; control valves adjust flow continuously; safety and relief valves open automatically to protect equipment from overpressure.



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3.4 Process instrumentation, analyzers, control systems and measurement...

SUPPLY SCOPE

Process instrumentation, analyzers, control systems and measurement equipment.

DEFINITION

Process instrumentation measures pressure, temperature, flow, level and composition. Analyzers determine product quality online, and control systems use these measurements to keep the process stable and safe.

3.5 Electrical distribution, motors, VFDs, MCCs, UPS, switchgear and...

SUPPLY SCOPE

Electrical distribution, motors, VFDs, MCCs, UPS, switchgear and hazardous-area equipment.

DEFINITION

Electrical distribution brings power to every unit: switchgear, MCCs (Motor Control Centres), motors and VFDs (Variable Frequency Drives), UPS for backup power, and certified equipment for hazardous areas where flammable gases may be present.

3.6 Static-equipment, piping and mechanical spare parts for refineries and...

SUPPLY SCOPE

Static-equipment, piping and mechanical spare parts for refineries and petrochemical facilities.

DEFINITION

Static-equipment spares include tube bundles, gaskets, internals, nozzles and supports; piping spares include flanges, fittings and valves; mechanical spares cover all wear parts used in refinery and petrochemical maintenance.

3.7 Shutdown/turnaround materials, maintenance consumables and emergency...

SUPPLY SCOPE

Shutdown/turnaround materials, maintenance consumables and emergency replacement parts.

DEFINITION

A shutdown or turnaround is a planned stop of a unit for inspection, cleaning and replacement work. Materials, consumables and emergency parts must be ready before the stop so that the unit restarts on schedule.



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3.8 Utility, steam, water, air, nitrogen and chemical-handling related...

SUPPLY SCOPE

Utility, steam, water, air, nitrogen and chemical-handling related industrial equipment.

DEFINITION

Utilities are the support systems of a plant: steam, cooling and process water, compressed air, nitrogen and chemical handling. COTI sources the pumps, compressors, treatment equipment and components these systems need.

3.9 Spare-parts packages and lifecycle/obsolescence support for process...

SUPPLY SCOPE

Spare-parts packages and lifecycle/obsolescence support for process facilities.

DEFINITION

Spare-parts packages group the parts recommended for start-up, commissioning or two years of operation. Lifecycle and obsolescence support identifies replacements when a manufacturer stops producing an original part.

Specialized services are provided and/or coordinated with qualified technical partners according to project requirements.

Contact COTI

Send us your RFQ, part numbers, nameplate photos or technical specifications. We will review your requirement and reply with a structured proposal.

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