

JERANEAS, S.L.

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Budget Offer: COMPLETE TURBINE GE LMS100

Dear Sir,

In response to your enquiry, we are pleased to attach our budget offer for the supply of equipment listed below.

The offer is an open offer, for budgetary purposes only and is defined in our technical specification and scope of supply as attached. It is ruled by Spain law.

After verification of the respective site specific data, we would be pleased to make you a more detailed firm quotation upon request.

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SUBJECT

Offer 1 unit GTG PACKAGE LMS100PA

PRICE

EXWORKS PRICE for request

TRANSPORT COST TO FOB BILBAO PORT for package is 1.900.000,00 USD

The above prices exclude VAT or any other taxes, and are binding.

CONDITIONS

All prices quoted in USD

The equipment described is sold "AS IS WHERE IS" WITHOUT WARRANTY. The equipment has zero hours of operation and is available for inspection.

FOB BILBAO PORT, SPAIN

Equipment manufactured in 2008 in Houston-SPAIN and arrival at temporary storage in 2009.

Man equipment stored in controlled environment with optimum temperature and humidity conditions

Optimum packing equipment and structural protections.

The storage have followed a preservation program according to the procedures established for long-term storage by GE consisting of:

- Daily inspection of the conditions of temperature and humidity.
- Weekly inspections of the equipment packing
- Monthly inspections of the state of the mechanical parts of the equipment's
- Video scope biannual inspections of the several parts of the gas turbine

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TERMS OF PAYMENT

100% of the total price receipt of payment shall mean the date of firm placement of order to the client.

SCOPE OF SUPPLY GTG PACKAGE LMS100PA

Gas Turbine GE LMS100PA

3 spool hybrid gas turbine in the LM family:

- Low pressure compressor (LPC)
- Aeroderivative supercore (high pressure compressor, combustor and high pressure turbine and intermediate pressure turbine)
- Five stages low pressure turbine turbine (LPT)

Generator

- Air cooled Hitachi (model GH1150A) made 2-pole generator rated at min 138,75kVA @ 0.80pf, 15°C cooling air, 11.500 volts, 50Hz

Gas Turbine Enclosure

- Weatherproof acoustic enclosure and a removable roof for quick engine removal and replacement

Turbine Baseplate

- Support structure for the gas turbine

Air Inlet System

- High efficiency self cleaning filtration system with platforms and ladders to service the inlet filter

Anti-icing system

- Anti-icing cooling system based on gas turbine axial compressor bleed air

Intercooler

- Intercooler system that includes water cooled heat exchanger, variable bleed valve (VBV), VBV silencer, and interconnect piping and supports.

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Turbine Exhaust

- Right-hand (aft looking forward) rectangular exhaust outlet with connection flange to facilitate mounting of the exhaust system

Fuel system

- Natural gas system using an electronically controlled fuel-metering valve
- All necessary shutoff valves, piping and instruments between baseplate connection and the engine

Water injection for NOx control

- Water injection system for NOx emissions limitations consisting of an inlet strainer, pump, motor, valves, piping and controls.

Cooling water pumps skid

- Water pumps skid with 2x100% water pumps to supply cooling water to both the gas turbine intercooler and GTG lube oil coolers, and a third pump to supply cooling water to the GTG lube oil coolers during the GTG shutdown.

Lube oil systems

Two separate lube oil systems:

- Synthetic lube oil system for gas turbine core & intermediate pressure turbine:
Skid with 2x100% filters, 2x100% shell and tube coolers and thermostatically- controlled electric heaters.
- Mineral lube oil system for generator, low pressure compressor & powerturbine:
Skid with 2x100% filters, 2x100% shell and tube coolers and thermostatically-controlled electric heaters.

Electro-hydraulic start system

- An electric motor driven hydraulic pump assembly, filters, cooler and controls.

Fire protection system

- Factory installed fire protection system with optical flame detection, hydrocarbon sensing and thermal detectors, piping and nozzles in the engine compartment.
- 24VDC battery and charger to power the fire protection system

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Gas Turbine Generator Control System

- Freestanding GE MK VIe control panel mounted in the Power Control Module

Battery systems

Battery systems mounted in the Power Control Module:

- 24V DC battery systems for the fire protection and gas turbine generator control systems
- 125V DC battery system for control cooling backup
- 240V DC battery system to power the mineral lube oil system DC motor driven backup pump.

Generator Protective Relays

- Microprocessor-based Beckwith M-3425 Integrated Generator Protection system module (IGPS) mounted in the turbine control panel.

“On Line” and “Off Line” Cleaning and Soak wash system

- Reservoir and piping for “on-line” cleaning system and “off-line” soak cleaning system

Simple Cycle Exhaust System

Exhaust stack assembly:

- Expansion joint
- Elbow duct
- Stack (40 meters high)
- Emission ports for sample probes
- Four emission ports dedicated to the Environmental Protection Agency testing requirements.
- Ladders and platforms
- All bolting hardware, gaskets and field insulation

CO Reduction System

CO emissions catalyst reduction system (COR) as a part of the exhaust stack:

- Expansion joint
- Ductwork
- CO oxidation catalyst

Gas Fuel Filter / Coalescing Skid

- Skid consisting of duplex (2x100%) coalescing gas fuel filters

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Demineralized water filter skid

- Skid consisting of 2x100% water filters

Continuous Emissions Monitoring System (CEMS)

One CEMS system for the combustion turbine package with an extractive sampling system that provides continuous monitoring of the following parameters:

- ./ NOx
- ./ SO2
- ./ CO
- ./ O2
- ./ VOC
- ./ TSP
- ./ Temperature
- ./ Pressure
- ./ Humidity
- ./ Turbine exhaust flow

GTG Foundation Anchoring system

- Equipment foundation anchoring systems for the combustion turbine generator package only.

GTG Motor Control Center

- AC Motor Control Center for the gas turbine package motors and heaters

Power Control Module (PCM)

- Prefabricated Power Control Module designed for the installation of the GTG electrical control gear

Interconnect piping

- Interconnecting piping between supplied equipment

Vent piping

- Vent piping for the supplied equipment

Electrical control and power interconnect cable

- Interconnecting cabling between supplied equipment
- Cable trays, supports and accessories for the interconnecting cabling

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Component testing and factory test for package

- The core gas turbine is performance tested at a GE Test Cell
- The generator is factory-tested at its factory of manufacture

Drawings, data and manuals

- General Arrangement drawings
- Flow & Instrument diagrams
- Electrical on-line drawings
- Electrical schematic diagrams
- Logic diagrams
- O&M manuals
- Quality Plan and associated quality documentation applicable to the equipment supplied and testing activities

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PHOTO



Turbine Skid

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GTG Package Equipment inside the warehouse

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Auxiliary Skids stored inside the warehouse



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Generator



Outdoor storage area for the GTG Package Equipment (1)

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Outdoor storage area for the GTG
Package Equipment (2)



Outdoor storage area for the GTG Package Equipment (3)

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Intercooler



PCM

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Yours sincerely
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Alfonso Alvaro
- Commercial Director -

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