

Section 3.0 Equipment List - Detailed Division of Responsibility

Material/Responsibility	Qty	Description
Owner	1 Lot	Removal of all unused building foundations, underground piping, etc. on the proposed project site
	1 Lot	Natural Gas Pipeline and supply metered at inter-tie point within 50' of Plant Boundary
	3	100 % Fuel Gas Compressors
	1 Lot	Fuel Gas and Liquid Fuel for Commissioning / Start-up that meets GE Fuel Specifications
	1 Lot	Liquid Fuel Treatment System
	1 Lot	Raw Water Supply to site boundary
	1 Lot	Raw Water for Commissioning and Startup
	1 Lot	Waste Water and Waste Oil Truck Removal
	1	Provision for Telephone communications to site
	1 Lot	Permits for Environmental, Importation, Transportation, Building, Operations, etc. to allow plant construction and commercial operations
	1 Lot	Construction Commissioning 480V three phase power
	1 Lot	Access Roads to site
	1 Lot	Any required Electric Utility 230 KV Tie-In interconnect to the Utility
	1 Lot	Site Soil Analysis at key foundation locations
	1 Lot	Import Duties and Taxes
	1 Lot	Construction lay down area (up to 3 acres)
	1 lot	Right of Way, easements, etc. to allow proposed interconnects as required
		Gas Turbine Generator
	3	Pratt & Whitney FT8-3 SwiftPac (60Hz) Dual Fueled Gas Turbine Generator packages
	3	Modular Control Buildings with:
Contractor – ProEnergy EPC Responsibility Civil / Structural		- Turbine Control Panel
		- Generator Control Panel and Protection Panel
		- 24 VDC Batteries and Chargers
		- 125 VDC Batteries and Chargers
		- 125 VDC Rundown motor starter
		- 13.8 KV Generator Breaker Nema 3R
		- GTG 480 V MCC
	3	13.8 KV to 230 KV GSU Transformers , 75MVA
	1	Water Treatment consisting of Multi-Media filters and R.O. System
	6	Exhaust Stacks with Silencers
	1 Lot	Site Preparation, Rough Grading, Excavation, final grading and fencing
	1 Lot	Temporary Power Distribution
Buildings	1 Lot	Plant Concrete Foundations
	1 Lot	Plant Paving, Gravel and Pads for the GTG Turbines and Generators
	1 Lot	Structural piping supports, platforms, ladders, and Misc structural steel supports. (Note: Platforms and ladders for the exhaust stacks to be furnished by Owner)
	1	Demin Water Treatment & Forwarding Pump & Firewater pump Building
	1	Compressor shed

	1	Liquid Fuel Treatment, Diesel Pump Shed.
Material/Responsibility	Qty	Description
Contractor (continued)		
Buildings		
	1	Control Room and, Office Building.
	1	Warehouse and Maintenance building
	1	Gas Compressor Building
	1	Water Treatment Building
	1	Liquid Fuel Treatment Building/Shed
Mechanical		
	1	Fuel Gas Plant ESD Valve
	1	Fire Water System including pumps, controls, Loop, Monitors and Hydrants
	1	650,00 gallon raw water/firewater Carbon Steel storage tank
	1	250,000 stainless steel Demin Water Storage Tanks
	3	GTG Duplex Demin Water Filter Skids
	1	Demineralized Water Treatment system (EDI)
	3	Demin Water forwarding Pumps
	2	Oily Water Separator
	1	Waste Oil Tank 15,000 Gallon w/waste oil pump to Truck for disposal
	1	Waste Water Tank 15,000 Gallon w/waste water pump to Truck for disposal
	2	650,000 gallon raw liquid fuel storage tanks
	2	250,000 gallon clean liquid fuel storage tanks
	2	100% capacity Liquid Fuel forwarding pumps
	3 sets	Duplex Liquid Fuel Filters
	1 Lot	Pipe, Valves and Fittings with Insulation as required
	1 Lot	Mechanical Labor
Electrical		
	2	13.8 KV Fused Disconnects (Station Service) NEMA 3R
	1	13.8 KV/4160 V 2000 KVA Fuel Gas Compressor
	2	13.8 KV/480 V 750 KVA Transformers
	1	4160 V MCC for Fuel Gas Compressor
	1	480 V Distribution Switch board
	1	480 V BOP MCC
	1 Lot	BOP 480/220 V Transformers, Lights, Panels etc
	1	120 V UPS System for Control Room
	1	Plant Grounding Grid
	1 Lot	Lightning Protection
	1 Lot	Cathodic Protection for underground steel piping
	1 Lot	Area Lighting
	1 Lot	480 V Welding Receptacles
	1 Lot	Electrical Labor
	1 Lot	Local Subcontractor(s) Civil, Electrical & Mechanical Craft Labor

Material/Responsibility	Qty	Description
Contractor (continued)		
Instrumentation & Control		
	1 Lot	Plant Instrumentation
	1	Remote DCS PLC
	1 Lot	I&C Installation and Construction
Construction		
	1 Lot	Major Equipment Erection
	1 Lot	Mechanical Installation and Construction
	1 Lot	Construction Tools, Rental Equipment & Rental Cranes
	1 Lot	Lubricants, Chemicals, Filters, etc. for Plant Commissioning and Start up
	1 Lot	Balance of Plant Start up and Commissioning Spare Parts
	1 Lot	Transportation of all BOP Equipment to site
	1 Lot	Plant Commissioning and Performance Testing
	1 Lot	Overall Plant Training
Engineering		
	1 Lot	Conceptual and Detail Design engineering (Total Plant)
	1 Lot	Project Manuals including O&M, Warranty, and Engineering Calculations
	1 Lot	As Built Drawings
	1 Lot	Recommended Vendor Spare Parts List
Project Management		
	1 Lot	Project Management with QA/QC, Safety, and Training
	1 Lot	Project manuals including project procedures, Systems Turnover Manuals, project implementation, QA/QC, safety and training
	1 lot	Training