



City of Oak Ridge Request for Quotation #149092

Q2C Number: 37132998

Quote Number: 1

Revision Number: 0

Project Name: CITY OF OAK RIDGE

Project Location: OAK RIDGE, TN

Quote Name: OUTDOOR SWITCHGEAR

Through Addenda Number: 0

Bid Date: AUGUST 9, 2016 2:00 P.M. (local time)

Sales Representative: ED ZIENTEK

Conditions of Sale

This Quotation is subject to Coordinated Project Terms.

Payment Terms: STANDARD

Currency: US DOLLARS

Quote Markings

Vendor Name: _____
Payment Terms: _____
F.O.B.: _____
Delivery Date: _____
Ship Via: _____
Signature: _____

SHIP City of Oak Ridge - Materials Management
TO 100 Woodbury Lane / P.O. Box 1
Oak Ridge, TN 37830
(865) 425-1819 FAX (865) 482-8475
Lyn Majeski lmajeski@oakridgetn.gov

Ordered - 07/16/16 Freight - Default - Handling Code
Requested - 08/09/16 Taken By -
Delivery - Deliveries are accepted 8 a.m. TO 3 p.m.

Description / Supplier Item

SWITCHGEAR FOR THE WWTP PER
THE ATTACHED SPECIFICATIONS

Total Order

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Item No.	Qty.	Catalog Number / Details
001-00	1	<p>Designation: U-1 QED-6 SWITCHBOARD LOW VOLTAGE SWITCHGEAR Single Main With Feeders 480/277V, 3PH-4W, 60HZ 1600A Copper Main Bus Solidly Grounded Neutral 100% Neutral 10KVA Control Power Transformer 65kA Maximum Available Fault Current NEMA Type 3R Outdoor Walk-in Construction ANSI 49 Exterior Color Paint Network Communications Only - No Web Pages Ethernet Gateway with 10/100Base TX RJ-45 Twisted Pair Port All Modbus devices pre-wired and pre-tested at the factory to the gateway Manually Operated Overhead Lifting Device 24VDC to Trip Unit Display White Back Pans Special Records: TAG 6018323 - 01 - Utility CPT relocation TAG 6018323 - 01 - Bottom Incoming cables</p> <p>ENCLOSURE OPTIONS 5 - Section(s) with 1600A, Thermal Silver Plated Vertical Bus 2 - 22", 1600A, Indoor Vertical Auxiliary Section 5 - 72" Deep Enclosure 5 - Rodent Barriers and Bottom Plates 5 - Humidistat 5 - Strip Heaters in Bus Compartment 5 - Strip Heaters in Cable Compartment 3 - 22", 1600A, 4W, 100%N, Indoor Vertical Section 4 - 22" NEMA Type 3R section adder</p> <p>INCOMING ONE: CONNECTIONS & METERING OPTIONS Freestanding Cable Fed - Top Incoming 1600A UL Service Entrance Label 1600A 4W Mechanical 1-Hole Lugs</p> <p>MAIN ONE: CIRCUIT BREAKER 1600A, NW16N, Manually Operated Main Breaker DESCRIPTION: Ammeter Unit (6.0A), LSIG Communications Module & Wiring - Main/Tie Sensor Rating Plug - A Plug Dial Setting - 1.0 Trip Setting (Amps) - 1600 Alternative Maintenance Setting Switch - Locally Mounted Power Meter - PM5563RD in line up with communications Closing Coil (XF) 120Vac Shunt Trip - Manually Operated Main Open/Close Pushbutton Lock - Main</p>

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Item	No.	Qty.	Catalog Number / Details
			Breaker ID Nameplate - Main 4A Form C Contacts Auxiliary Switch Breaker Padlock Attachment on Circuit Breaker 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Shunt Close - Manually Operated Main Metering CTs Cell - 2 B
			FEEDER CIRCUIT BREAKERS & INSTRUMENTATION Shunt Trip - Manually Operated Feeder 120Vac 800A, NW08N, Manually Operated Feeder Breaker DESCRIPTION: P-61 Ammeter Unit (6.0A), LSIG Communications Module & Wiring - Feeder Sensor Rating Plug - A Plug Dial Setting - 1.0 Trip Setting (Amps) - 800 Open/Close Pushbutton Lock - Feeder Shunt Close - Manually Operated Feeder Breaker ID Nameplate - Feeder Breaker Padlock Attachment on Circuit Breaker Closing Coil (XF) 120Vac 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 3 B
			800A, NW08N, Manually Operated Feeder Breaker Prep Space DESCRIPTION: Prepared SPACE Ammeter Unit (6.0A), LSIG Breaker ID Nameplate - Feeder Modbus Communications - Feeder 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 3 C
			800A, NW08N, Manually Operated Feeder Breaker DESCRIPTION: P-62 Ammeter Unit (6.0A), LSIG Communications Module & Wiring - Feeder Sensor Rating Plug - A Plug Dial Setting - 1.0 Trip Setting (Amps) - 800 Breaker ID Nameplate - Feeder Breaker Padlock Attachment on Circuit Breaker

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Item No.	Qty.	Catalog Number / Details
		800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 4 B
		800A, NW08N, Manually Operated Feeder Breaker Prep Space DESCRIPTION: Prepared SPACE Ammeter Unit (6.0A), LSIG Breaker ID Nameplate - Feeder Modbus Communications - Feeder 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 4 C

Estimated days to ship excluding transit: 90 working days
after customer release to manufacture. See Conditions of
Sale.

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Item No.	Qty.	Catalog Number / Details
002-00	1	<p>Designation: U-2 QED-6 SWITCHBOARD LOW VOLTAGE SWITCHGEAR Single Main With Feeders 480/277V,3PH-4W,60HZ 2000A Copper Main Bus Solidly Grounded Neutral 100% Neutral 10KVA Control Power Transformer 50kA Maximum Available Fault Current NEMA Type 3R Outdoor Walk-in Construction ANSI 49 Exterior Color Paint Network Communications Only - No Web Pages Ethernet Gateway with 10/100Base TX RJ-45 Twisted Pair Port All Modbus devices pre-wired and pre-tested at the factory to the gateway Manually Operated Overhead Lifting Device 24VDC to Trip Unit Display Full Breaker Test Kit White Back Pans Special Records: TAG 6018323 - 01 - Ultity Main CPT relocation TAG 6018323 - 01 - incoming cables - bottom</p> <p>ENCLOSURE OPTIONS 3 - Section(s) with 2000A, Thermal Silver Plated Vertical Bus 1 - 22", 2000A, Indoor Vertical Auxiliary Section 6 - 72" Deep Enclosure 6 - Rodent Barriers and Bottom Plates 6 - Humidistat 6 - Strip Heaters in Bus Compartment 6 - Strip Heaters in Cable Compartment 3 - Section(s) with 1600A, Thermal Silver Plated Vertical Bus 4 - 22", 2000A, 4W, 100%N, Indoor Vertical Section 4 - 22" NEMA Type 3R section adder 1 - 30" NEMA Type 3R section adder</p> <p>INCOMING ONE: CONNECTIONS & METERING OPTIONS Freestanding Cable Fed - Top Incoming 2000A UL Service Entrance Label 2000A 4W Mechanical 1-Hole Lugs</p> <p>MAIN ONE: CIRCUIT BREAKER 2000A, NW20N, Manually Operated Main Breaker DESCRIPTION: Main Ammeter Unit (6.0A), LSIG Communications Module & Wiring - Main/Tie Sensor Rating Plug - A Plug Dial Setting - 1.0 Trip Setting (Amps) - 2000 Alternative Maintenance Setting Switch - Locally Mounted Power Meter - PM5563RD in line up with communications</p>

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		Closing Coil (XF) 120Vac Shunt Trip - Manually Operated Main Open/Close Pushbutton Lock - Main Breaker ID Nameplate - Main 4A Form C Contacts Auxiliary Switch Breaker Padlock Attachment on Circuit Breaker 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Shunt Close - Manually Operated Main Metering CTs Cell - 5 B
		FEEDER CIRCUIT BREAKERS & INSTRUMENTATION Shunt Trip - Manually Operated Feeder 20Vac 800A, NW08N, Manually Operated Feeder Breaker Prep Space DESCRIPTION: Prepared Space Ammeter Unit (6.0A), LSIG Alternative Maintenance Setting Switch - Locally Mounted Shunt Close - Manually Operated Feeder Breaker ID Nameplate - Feeder Closing Coil (XF) 120Vac Modbus Communications - Feeder 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 2 B
		Shunt Trip - Manually Operated Feeder 120Vac 800A, NW08N, Manually Operated Feeder Breaker DESCRIPTION: Digester Ammeter Unit (6.0A), LSIG Communications Module & Wiring - Feeder Sensor Rating Plug - A Plug Dial Setting - 1.0 Trip Setting (Amps) - 800 Alternative Maintenance Setting Switch - Locally Mounted Open/Close Pushbutton Lock - Feeder Shunt Close - Manually Operated Feeder Breaker ID Nameplate - Feeder Breaker Padlock Attachment on Circuit Breaker Closing Coil (XF) 120Vac 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 2 C

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		<p>Shunt Trip - Manually Operated Feeder 120Vac 800A, NW08N, Manually Operated Feeder Breaker Prep Space DESCRIPTION: Prepared Space Ammeter Unit (6.0A), LSIG Alternative Maintenance Setting Switch - Locally Mounted Shunt Close - Manually Operated Feeder Breaker ID Nameplate - Feeder Closing Coil (XF) 120Vac Modbus Communications - Feeder 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 3 A</p>
		<p>Shunt Trip - Manually Operated Feeder 120Vac 800A, NW08N, Manually Operated Feeder Breaker Prep Space DESCRIPTION: Prepared Space Ammeter Unit (6.0A), LSIG Alternative Maintenance Setting Switch - Locally Mounted Shunt Close - Manually Operated Feeder Breaker ID Nameplate - Feeder Closing Coil (XF) 120Vac Modbus Communications - Feeder 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 3 B</p>
		<p>Shunt Trip - Manually Operated Feeder 120Vac 800A, NW08N, Manually Operated Feeder Breaker DESCRIPTION: P-41 Ammeter Unit (6.0A), LSIG Communications Module & Wiring - Feeder Sensor Rating Plug - A Plug Dial Setting - 1.0 Trip Setting (Amps) - 800 Alternative Maintenance Setting Switch - Locally Mounted Open/Close Pushbutton Lock - Feeder Shunt Close - Manually Operated Feeder Breaker ID Nameplate - Feeder Breaker Padlock Attachment on Circuit Breaker Closing Coil (XF) 120Vac 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment</p>

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		Cell - 3 C
		Shunt Trip - Manually Operated Feeder 120Vac 800A, NW08N, Manually Operated Feeder Breaker DESCRIPTION: P-42 Ammeter Unit (6.0A), LSIG Communications Module & Wiring - Feeder Sensor Rating Plug - B Plug Dial Setting - 1.0 Trip Setting (Amps) - 600 Alternative Maintenance Setting Switch - Locally Mounted Open/Close Pushbutton Lock - Feeder Shunt Close - Manually Operated Feeder Breaker ID Nameplate - Feeder Breaker Padlock Attachment on Circuit Breaker Closing Coil (XF) 120Vac 800A, 4W, Mechanical 1-Hole Lugs 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly Strip Heaters in Breaker Compartment Cell - 4 B
		Shunt Trip - Manually Operated Feeder 120Vac 1200A, NW12N, Manually Operated Feeder Breaker DESCRIPTION: ATS Ammeter Unit (6.0A), LSIG Communications Module & Wiring - Feeder Sensor Rating Plug - A Plug Dial Setting - 1.0 Trip Setting (Amps) - 1000 Alternative Maintenance Setting Switch - Locally Mounted Shunt Close - Manually Operated Feeder Breaker ID Nameplate - Feeder Breaker Padlock Attachment on Circuit Breaker Closing Coil (XF) 120Vac 4A Form C Contacts Auxiliary Switch 1C Connected, 1C Test, 1C Disconnected Cell Switch Assembly 1200A, 4W, Mechanical 1-Hole Lugs Strip Heaters in Breaker Compartment Cell - 4 C

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003-00	1	SYSTEM STUDIES SHORT CIRCUIT
004-00	1	SYSTEM STUDIES COORDINATION
005-00	1	SIBS SERVICES INSTALLED BASE SERVICES
006-00	1	SRVINCLVSIBS Startup A) SCOPE OF WORK FOR START-UP SERVICES Specifically, experienced field service technician(s) will perform visual, mechanical and electrical tests on the following equipment, as outlined in our Scopes of Work for Electrical Acceptance Testing (ATP1910DB1302-120213). You will receive a copy of the test reports which can serve as a benchmark for future preventive maintenance and testing activities.
<p><u>Equipment to be Commissioned</u></p> <p>"37132998-1, Equipment: QED6 Switchboards, Designation: U-1</p> <p>"37132998-2, Equipment: QED6 Switchboards, Designation: U-2</p> <p>This proposal is based upon the Field Service Representative(s) performing this scope of work during regular working hours Monday through Friday from 8:00 AM to 5:00 PM. Overtime, Saturdays, Sundays, or Holidays are available at an additional cost.</p>		
007-00	1	SIBS12MONTHEXTWARRWSTARTUP SIBS 12 MO EXTENDED WARRANTY W/ STARTUP