October 15, 2024
File No. 01204123.21-13

Mr. Baitong Chen
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765

Subject: Landfill Gas Well Selection for Installation of Remote Monitoring System Equipment
Chiquita Canyon Landfill – Castaic, California

Dear Mr. Chen:

In accordance with Condition No. 66(a)(v) of the Stipulated Order for Abatement (SOFA) in Case No. 6177-4 with the South Coast Air Quality Management District (South Coast AQMD) pertaining to the Chiquita Canyon Landfill (CCL or Landfill), the Reaction Committee has determined the locations for installation of the remote monitoring system (RMS) equipment, as identified herein. Condition No. 66(a)(v) states:

> *A remote monitoring system shall be installed and in operation no later than December 31, 2024, or other date as approved in writing by South Coast AQMD. Temperature shall be measured in at least twenty (20) wellheads operated in the Initial Reaction Area (defined as the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2 as specified in Condition No. 9(a)). By October 15, 2024, the Reaction Committee shall determine the location for installation of the remote monitoring system equipment and shall submit its determination to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)]. Should any of the remote monitoring system equipment fail due to the ETLF conditions at the Landfill, Respondent does not need to replace it.*

The Committee has evaluated the existing vertical landfill gas (LFG) extraction wells at the Landfill that serve as potential candidates to receive the RMS equipment and has selected twenty (20) LFG wells to be equipped with temperature measurement instrumentation and associated telemetry equipment. A review of background information and a discussion of the criteria and field conditions that were considered by the Reaction Committee in selecting these locations are presented below.

BACKGROUND

Several existing documents have been previously prepared and submitted to the South Coast AQMD and provide useful background information regarding the issues related to the application of RMS equipment in LFG collection systems at elevated temperature landfills (ETLFs). These documents are listed below and are attached hereto:

- *LFG Wellfield Automated Remote Monitoring Plan, prepared by SCS Engineers*, dated April 19, 2024 (**Attachment B**);
- *Response to South Coast Air Quality Management Stipulated Order for Abatement in Case No. 6177-4 Condition 66(a)(ii)*, prepared by SCS Engineers, dated September 17, 2024 (**Attachment C**); and

- *Response to South Coast Air Quality Management Stipulated Order for Abatement in Case No. 6177-4 Condition 66(a)(iii)*, prepared by SCS Engineers, dated October 11, 2024 (**Attachment D**).

As outlined in the SOFA Condition No. 66(a)(v), while Chiquita has evaluated a number of sensors, instruments, and measurement devices that could potentially serve as components that comprise an LFG wellfield RMS, the only devices relevant to this determination are temperature sensors installed in 20 wellheads within the initial Reaction Area.

CONSIDERATIONS & CRITERIA RELATED TO SELECTING LOCATIONS FOR RMS EQUIPMENT INSTALLATION

The Reaction Committee considered the following issues when selecting the candidate wells to be equipped with the RMS instrumentation:

- The selection of wells considered the objective of spatial variability and attempted to avoid congregating the RMS equipment at adjacent wells within a particular subsection of the initial Reaction Area. However, recognizing the objective of the automated temperature monitoring is to detect whether elevated temperature conditions are changing, a preference for positioning the RMS equipment in and around the data-driven reaction area boundary (designated with a dashed magenta line in various submittals) was considered.

- The temperature sensors positioned in the wellheads will be subjected to LFG flowing through the wellhead. It is useful to select wells that have a range of temperatures (i.e., elevated temperature "hot" wells, slightly "warm" wells, and relatively "cool" wells) in order to assess performance of the sensor under a variety of temperatures. It is also important to select wells that are flowing; otherwise, the temperature may be more influenced by the outside air temperature.

- The temperature sensors will likely function best and maintain more accurate measurements if they are not subjected to being submerged in leachate and potentially fouled by high solids content in the leachate. Accordingly, wells that have been documented as exhibiting periodic pressurized leachate releases through the wellhead are generally excluded from consideration.

- Installation of the temperature devices into the wellhead could potentially be more challenging if the piping material is steel rather than PVC or HDPE. However, a strategy involving suspending the sensor from the riser pipe flange has been developed that should address this concern. Accordingly, while the type of piping material that comprises the wellhead has been noted during the selection exercise, it did not dictate the selection of specific wells.

INVENTORY OF SELECTED WELLS

Based on an evaluation of the wells and the criteria and considerations outlined above, the Reaction Committee recommends that the RMS equipment be deployed at the existing vertical LFG extraction wells listed in **Table 1**. The selected wells are positioned within the initial Reaction Area. The Drawing included as **Attachment A** depicts the location of the selected wells and their position within the initial Reaction Area. These wells are believed to be appropriate to assess the suitability and viability of the

temperature measurement devices and associated telemetry equipment to measure temperatures of the LFG flowing through the wellhead and accomplish the objective of automated remote monitoring and data compilation.

Table 1. LFG Wells for RMS Equipment Installation

CV-2301	CV-2338	CV-2464	CV-24140
CV-2303	CV-2430	CV-2467	CV-24142
CV-2306	CV-2433	CV-24100	CV-24158
CV-2322	CV-2438	CV-24124	CV-24173
CV-2326	CV-2456	CV-24126	CV-24195

Chiquita may modify a particular well for installation of the RMS equipment if warranted to accommodate field conditions. If such change is necessary, another well will be selected that considers the criteria discussed herein.

Sincerely,

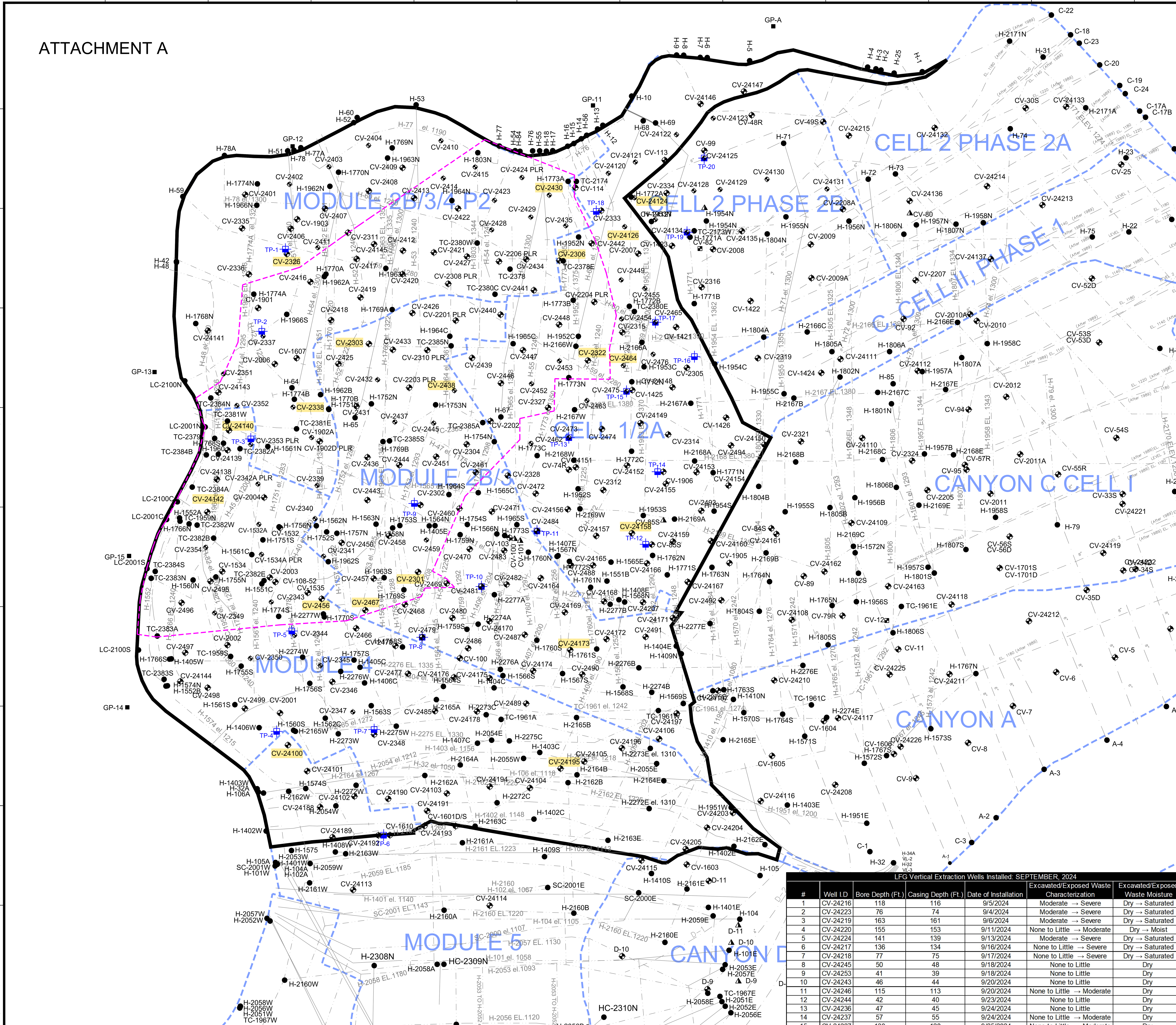
Robert E. Dick, PE, BCEE
Project Director
SCS Engineers

William C. Haley, PE
Project Director
SCS Engineers

WCH/RED

Encl.

ATTACHMENT A



LEGEND

- EXISTING CELL LIMITS (APPROXIMATE)
- CV-XX — EXISTING VERTICAL WELLS
- CV-XX PLR — EXISTING VERTICAL WELL - PRESSURIZED LEACHATE RELEASE
- CV-XX — EXISTING VERTICAL WELLS BELOW-GRADE
- H-XX — EXISTING HORIZONTAL WELLS
- CV-XX — EXISTING REMOTE VERTICAL WELLHEAD
- GP-XX — EXISTING PERIMETER MIGRATION PROBE
- TP-XX — EXISTING TEMPERATURE PROBE
- EXISTING HORIZONTAL COLLECTOR - SOLID
- EXISTING HORIZONTAL COLLECTOR - PERFORATED
- EXISTING HISTORIC HORIZONTAL COLLECTOR
- REACTION AREA BOUNDARY (APPROXIMATE) - BASED ON DATA REVIEW
- REACTION AREA BOUNDARY - CONDITION 9A

LFG Vertical Extraction Wells Installed: SEPTEMBER, 2024

#	Well I.D	Bore Depth (Ft.)	Casing Depth (Ft.)	Date of Installation	Excavated/Exposed Waste Characterization	Excavated/Exposed Waste Moisture
1	CV-24216	118	116	9/5/2024	Moderate → Severe	Dry → Saturated
2	CV-24223	76	74	9/4/2024	Moderate → Severe	Dry → Saturated
3	CV-24219	163	161	9/6/2024	Moderate → Severe	Dry → Saturated
4	CV-24220	155	153	9/11/2024	None to Little → Moderate	Dry → Moist
5	CV-24224	141	139	9/13/2024	Moderate → Severe	Dry → Saturated
6	CV-24217	136	134	9/16/2024	None to Little → Severe	Dry → Saturated
7	CV-24218	77	75	9/17/2024	None to Little → Severe	Dry → Saturated
8	CV-24245	50	48	9/18/2024	None to Little	Dry
9	CV-24253	41	39	9/18/2024	None to Little	Dry
10	CV-24243	46	44	9/20/2024	None to Little	Dry
11	CV-24246	115	113	9/20/2024	None to Little → Moderate	Dry
12	CV-24244	42	40	9/23/2024	None to Little	Dry
13	CV-24236	47	45	9/24/2024	None to Little	Dry
14	CV-24237	57	55	9/24/2024	None to Little → Moderate	Dry
15	CV-24227	130	128	9/25/2024	None to Little → Moderate	Dry

GENERAL DRAWING NOTES:

1. NORTH ARROW SHOWN HERE IS REFERENCE TO THE CALIFORNIA STATE PLANE ZONE V COORDINATE SYSTEM, NAD 83.
2. THE LOCATION OF ANY EXISTING PIPING, VALVES, TIE-IN LOCATIONS AND OTHER FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY AND SUBJECT TO CHANGE BASED ON FUTURE FILL OPERATIONS, WASTE PLACEMENT, TOPOGRAPHIC FEATURES, AND OTHER SITE-SPECIFIC FACTORS.

DATE	REVISION	NO.

SHEET TITLE: REACTION AREA MAP SEPTEMBER, 2024

PROJECT TITLE: CHIQUITA CANYON LANDFILL CASTAIC, CALIFORNIA

CLIENT: CHIQUITA CANYON LANDFILL CASTAIC, CALIFORNIA

SCS ENGINEERS
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PROJ. NO. 01204123.35 | DWN. BY: SRM/JH | CHK. BY: JH/WCH | DSN. BY: - | ACAD FILE: F:/ENGINEERS | APP. BY: WCH

DATE: 10/03/2024

SCALE: AS SHOWN

SHEET: 1

ATTACHMENT B

LFG Wellfield Automated Remote Monitoring Plan

Chiquita Canyon Landfill
Castaic, California
SCAQMD Facility No. 119219

Waste Connections
29201 Henry Mayo Drive
Castaic, CA 91384

Submitted to:

South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765
909-396-2000

SCS ENGINEERS

01204123.21-13 | April 19, 2024

15521 Midlothian Turnpike, Suite 305
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1 INTRODUCTION

Chiquita Canyon, LLC (Chiquita) operates a municipal solid waste (MSW) landfill/solid waste disposal facility located in Castaic, California under South Coast Air Quality Management District (SCAQMD) Facility No. 119219. SCS Engineers (SCS) prepared this Landfill Gas Wellfield Automated Remote Monitoring Plan (Plan) on behalf of Chiquita in accordance with Condition No. 66 of the March 21, 2024 Modified Stipulated Order of Abatement (SOFA) (Case No. 6177-4) pertaining to the Chiquita Canyon Landfill (CCL, Facility, or Landfill).

Condition No. 66 requires:

> *Respondent shall install and operate a real-time, remote monitoring system which shall, at minimum, monitor well pressure and landfill gas temperature at different well depths (shallow, middle, deep). The remote monitoring system may include monitoring of fixed gases, oxygen, methane, and carbon dioxide, as well as wellfield tuning/optimization and well liquid level monitoring. By April 19, 2024, the Reaction Committee shall submit recommendations regarding installation of the remote monitoring system. By no later than June 21, 2024, contracts to install and operate the monitoring shall be finalized. The remote monitoring system shall be installed and in operation no later than October 22, 2024, on all wells operated in the Initial Reaction Area (defined as the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2 as specified in Condition No. 9(a)).*

This Plan addresses the relevant considerations pertaining to automated remote measurement of pressure and temperature in landfill gas (LFG) wells and wellheads, as well as other operational parameters. The Plan also presents a discussion of instrumentation and equipment that may be utilized for measuring and recording various LFG wellfield operational parameters, including automated wellheads utilized within the LFG industry. The Plan further presents the Reaction Committee's recommendations regarding the installation and operation of the remote monitoring system.

OPERATIONAL PARAMETERS OF LANDFILL GAS EXTRACTION WELLS AND WELLHEADS

An evaluation and recommendation of any automated remote monitoring system for LFG wells and wellheads necessitates a comprehensive review of the operational parameters that are relevant to the monitoring of LFG collection systems. Furthermore, it is important to provide an inventory of the industry terminology associated with the operational parameters along with a detailed description of how the measurements of these parameters will be obtained in order to identify limitations and avoid any misunderstandings or differences in interpretations. The operational parameters for vertical LFG extraction wells and associated wellheads that are of interest for the purposes of data acquisition, either for wellfield balancing and tuning purposes or for regulatory compliance purposes, are outlined below:

- **Pressure:** The pressure within the wells and wellheads is typically recorded manually on a periodic basis by connecting field instrumentation to sampling ports at the wellhead. The pressure value can be positive or negative, and use of the term "vacuum" implies a negative pressure. The sampling ports are typically located on the upstream side of the wellhead control valve (often referred to as "static pressure"), which represent the pressure as measured in the well riser pipe, as well as the downstream side of the wellhead control valve

(often referred to as "system pressure"), which represents the available vacuum in the LFG collection piping. Furthermore, the flow measurement device within the wellhead, such as a pitot tube or orifice plate, has sampling ports to record the differential pressure to calculate the flowrate of LFG through the wellhead. The LFG industry has historically measured a single static pressure value on the upstream side of the wellhead control valve at the top of the well riser pipe and has not employed multi-depth pressure sensors down into the well riser pipe.

- **Temperature:** The gas temperature within the wells and wellheads is typically recorded manually on a periodic basis by connecting field instrumentation to a sampling port at the wellhead. The sampling port used for gas temperature measurement is typically located on the upstream side of the wellhead control valve, which represents the temperature of the extracted gas as measured in the well riser pipe. The LFG industry has historically only measured the gas temperature value on the upstream side of the wellhead control valve at the top of the well riser pipe and has not employed multi-depth temperature sensors down into the well riser pipe. The temperature of liquids that may accumulate within the well can be recorded manually on a periodic basis by removing the wellhead and inserting a field instrument down into the well to measure liquid temperatures at various depths. The LFG industry has historically not employed multi-depth temperature sensors down into the well riser pipe because the sensor apparatus may potentially interfere with LFG and liquid extraction, and the temperature values were not deemed critically important to achieve proper operations at non-ETLF sites. The temperature of liquids being extracted from the well via a dedicated downhole dewatering pump is typically not measured within the discharge tubing or forcemain piping during routine operations.

- **Gas Composition:** The gas composition within the wells and wellheads is typically recorded manually on a periodic basis by connecting field instrumentation to a sampling port at the wellhead. The sampling port used for gas composition measurement is typically located on the upstream side of the wellhead control valve, which represents the gas composition of the extracted gas as measured in the well riser pipe. The chemical constituents that are measured by the field instrumentation traditionally used in LFG system monitoring are methane (CH_4), oxygen (O_2), and carbon dioxide (CO_2), with the remaining "balance" gas being correlated to the approximate nitrogen (N_2) content. Other chemical constituents that may be present in the LFG are typically measured only by obtaining a sample for laboratory analyses. The LFG industry has historically only measured the gas composition values on the upstream side of the wellhead control valve at the top of the well riser pipe and has not employed multi-depth gas composition sample tubing or individual sensors down into the well riser pipe.

- **Flow:** The flowrate of the gas extracted by the wells and wellheads is typically calculated using the differential pressure recorded manually on a periodic basis by connecting field instrumentation to sampling ports at the wellhead. As noted previously, the flow measurement device within the wellhead, such as a pitot tube or orifice plate, has sampling ports to record the differential pressure to calculate the flowrate of LFG through the wellhead. The LFG industry has historically not employed gas flowmeters on individual wellheads because there is no source of electric power (unless each well is outfitted with solar power and batteries) and the exorbitant cost does not justify providing electronic gas flowmeters rather than pitot tubes or orifice plates. The flowrate of liquids being extracted

from the well via a dedicated downhole dewatering pump is typically not measured within the discharge tubing or forcemain piping for individual wells.

- **Liquid Levels:** The elevations and depths of liquids that may accumulate within the well can be recorded manually on a periodic basis by removing the wellhead and inserting a field instrument down into the well to measure the depth to top-of-liquid and calculate the corresponding elevation. The LFG industry has historically not employed liquid level sensors down into the well riser pipe because periodic manual measurement has been sufficient to achieve proper operations at non-ETLF sites and there are disadvantages with the various types of liquid level sensor equipment, as explained later in this Plan.

PURPOSE AND OBJECTIVES FOR THE REMOTE MONITORING OF OPERATIONAL PARAMETERS

The objectives related to the measurement and recording of the above-noted operational parameters associated with LFG collection systems, and the purposes for aggregating and analyzing the monitoring data, are noted below:

- Achieve appropriate balance and tuning of the wellfield to collect LFG at a sufficient extraction rate that optimizes the effectiveness and efficiency of the LFG collection system. This minimizes fugitive LFG emissions while simultaneously preventing air intrusion due to overdrawing the wells;
- Minimize off-site migration of subsurface gas;
- Minimize odors attributed to fugitive (uncollected) LFG emissions;
- Collect and control LFG in accordance with federal, state, and local air quality regulations, and air quality permit requirements;
- Protect the Landfill's bottom liner and final cover systems by controlling the accumulation of pressure due to the presence of LFG within the waste mass;
- Beneficial utilization of LFG for energy recovery when LFG serves as fuel for a landfill gas-to-energy facility, where applicable; and,
- Heat removal to contain and manage subsurface reactions at elevated temperature landfills, where applicable.

The periodic measurement of the operational parameters noted above (specifically, pressure, temperature, gas composition, flowrate, and liquid levels) at individual wells has been implemented by and evolved throughout the LFG industry over decades to equip operators of the LFG collection systems with information to enable the accomplishment of these multiple objectives. The accelerated advancement of technology associated with both the hardware and software elements of instrumentation, equipment, telemetry, and controls has facilitated the evolution of monitoring activities for certain operational parameters to be automatically measured on a continuous basis. This technique is referred to as "automated" or "remote," meaning it does not necessitate physically mobilizing a technician to the LFG well with hand-held field instrumentation, or as "real-time,"

meaning the measurements are being recorded instantaneously and these measurements are typically communicated to an electronic database or on-line platform.

The Reaction Committee has communicated the critical role the LFG extraction wells that are positioned within the Reaction Area serve to contain and manage the reaction and reduce the impacts to off-site communities. Chiquita and the Reaction Committee understand the purpose of an automated remote monitoring system for LFG wells positioned within the Reaction Area is to confirm proper operation and functionality of the wells in accomplishing their mission of dual-phase fluids removal (gas and liquid) and to assess the effectiveness of the wells in extracting heat and reducing off-site odors attributed to LFG fugitive emissions.

MONITORING INSTRUMENTATION AND EQUIPMENT

Pressure

The wells subject to being equipped with automated remote temperature monitoring instrumentation extract gas through the wellhead and extract liquids via a dedicated submersible pump connected to discharge tubing and forcemain piping. Condition No. 66 specifies that well pressure is to be measured at multiple well depths (shallow, middle, deep). Because system pressure (downstream of the wellhead control valve) and differential pressure (across the flow device) are measurements of the pressure as gas is flowing through the wellhead, are not obtained in the well itself, and cannot be made at multiple well depths, these parameters are not relevant to this evaluation.

The pressure measurement devices installed in wells at the Landfill will likely be exposed to both gaseous-phase and liquid-phase fluids that are present within the well riser pipe. Pressure measurement devices positioned above the liquid level will be measuring the applied downhole vacuum/gas pressures and, if devices were positioned below the liquid level, they will be monitoring the pore pressure, which in the well piping is equivalent to the hydrostatic head.

There is a vast universe of different types of pressure measurement devices (liquid column, elastic, electric, etc.) correlating to different scientific working principles, and different pressure measurement devices have historically been utilized in the LFG industry (digital and slack-tube manometers, electronic transducer, vibrating-wire piezometer, etc.). Previous wellhead pressure monitoring at other elevated temperature landfills (ETLFs) have utilized various types of electronic transducers.

Instrumentation suspended down into the well will need to co-exist with the submersible pump apparatus (pump, pneumatic supply line, liquid discharge tubing, pull-chain, etc.) and be resilient to interference during the insertion and removal of the pump and associated apparatus. Based on the Reaction Committee's collective experience, we are not aware of the LFG industry developing down-well, multi-depth pressure measurement devices that can co-exist with a submersible pump during pump servicing and maintenance activities (except where the device is affixed to the pump itself). While the multi-depth electronic pressure transducers may function suitably initially, they may become damaged or non-functional over time. Since multi-depth electronic pressure transducers may become damaged or non-functional over time, or prove to be infeasible because of compatibility with submersion in leachate or interference with a pump apparatus, a more viable approach is for automated remote measurement of the LFG flowing through the wellhead to be accomplished by a fixed pressure sensor positioned in the wellhead (rather than the well piping itself), which avoids

interference with the pumps. This approach is consistent with the language in Condition No. 66 to provide a single pressure value at the wellhead.

Temperature

The language in Condition No. 66 specifies that LFG temperature is to be measured at multiple well depths (shallow, middle, deep). Therefore, temperature measurements of the gas flowing through the wellhead, and temperature measurements of liquids flowing through the tubing/forcemain, are not relevant to this evaluation.

Similar to pressure devices, the temperature measurement devices installed in wells at the Landfill will likely be exposed to both gaseous-phase and liquid-phase fluids that are present within the well riser pipe. Temperature measurement devices positioned above the liquid level will be measuring the gas temperature and devices positioned below the liquid level will be monitoring the liquid temperature.

Previous down-well temperature monitoring at other ETLF landfills have explored three types of equipment for temperature measurement instrumentation: thermocouples, thermistors, and fiber-optic cable.

Thermocouple: Standard thermocouples have historically not been suitable to withstand long-term deployment when subjected to leachate because the instrument life is limited to approximately one year. However, high temperature thermocouples encased in a stainless steel tubing jacket with powdered magnesium oxide in the interstitial space have yielded suitable performance for greater than one year. Because each thermocouple suspended at a particular depth interval requires a unique signal cable to be extended to the probe termination apparatus, there is a limit to the number of thermocouples that can be installed into a single well pipe. Accordingly, the Reaction Committee recommends suspending thermocouples at 40-foot intervals, up to a maximum of three thermocouples, which would yield a temperature value at the 40-foot, 80-foot, and 120-foot-depth intervals.

Thermistor: The materials within a thermistor change their resistance as their temperature changes. A thermistor temperature monitoring system applies a known current to a thermistor and the monitoring system calculates the temperature based on the resulting voltage from the thermistor. A thermistor string would be installed in each well riser pipe. Each thermistor string would be configured to monitor the temperature within the borehole every 25 feet. However, recent experience with the thermistor strings at another ETLF landfill indicated thermistors were unsuitable because of chemical incompatibility and/or because of the temperature design rating (approximately 260°F). For this reason, the Reaction Committee does not recommend the use of thermistors.

Fiber-Optic Cable: Looped fiber-optic temperature sensors are essentially a fiber-optic loop connected to a light source, photodetector, and controller that measure the scattering of the light and the traveling time of the light to measure the temperature and corresponding location along the loop. This system is vulnerable to whole system failure and offers little resiliency and reliability. Since the temperature monitoring device utilizes one string and one head-end, if either of these breaks the entire system is broken and no temperatures are read or recorded. For this reason, the Reaction Committee does not recommend the use of looped fiber-optic sensors.

An alternative to the above-described fiber-optic configuration is to equip each individual well with its own dedicated fiber-optic temperature monitoring system. The individual systems would include a

down-hole fiber-optic loop with primary and secondary strings and a head-end monitoring unit. Each head-end monitoring unit would transmit its data to a control panel that could be recorded manually or via an Industrial Internet-of-Things (IIoT) transmitter to a cloud-based Remote Monitoring and Control (RMC) system to remotely view and interact with the data. However, the Reaction Committee does not recommend the use of individual fiber-optic sensors because of the complexity involved in the installation and operation of a large number of individual dedicated fiber-optic systems, which defeats the purpose of fiber-optic technology.

Instrumentation suspended down into the well will need to co-exist with the submersible pump apparatus (pump, pneumatic supply line, liquid discharge tubing, pull-chain, etc.) and be resilient to interference during the insertion and removal of the pump and associated apparatus. We are not aware of the LFG industry developing down-well, multi-depth temperature measurement devices that are likely to co-exist with the submersible pump during pump servicing and maintenance activities. While the multi-depth high-temperature encased thermocouples may function suitably initially, they may become damaged or non-functional over time. As noted in this Plan, the Reaction Committee recommends the use of thermocouples suspended into the well at multiple depths. However, if the multi-depth thermocouples become damaged or non-functional over time, or prove to be infeasible because of compatibility with submersion in leachate or interference with a pump apparatus, an appropriate substitute approach for consideration is for automated remote measurement of the LFG flowing through the wellhead to be accomplished by a single temperature sensor positioned in the wellhead (rather than the well piping itself), which will avoid interference with the pumps. This substitute approach would not provide multi-depth measurements, but could provide a single pressure value at the wellhead as a surrogate.

Gas Composition

There are two types of gas analyzers capable of measuring the major fixed gases or other select individual chemical compounds present in LFG that are commonly utilized in the LFG industry.

Gas Chromatograph/ Mass Spectrometer: Gas samples obtained from the upstream side of the wellhead control valve are suited to be filtered and conditioned before being transferred into a gas chromatography analyzer to determine gas composition and relative concentration amounts. The LFG produced under anaerobic conditions extracted from the wellfield contains fixed gases such as CH_4, CO_2, O_2, and N_2, which can be measured by a mass spectrometer (MS) after the vaporize compounds were previously separated by the gas chromatograph (GC) based on their chemical properties.

Both GC and MS tools are combined into one single device (GC-MS), which is equipped with a capillary column to where gases are pushed for further reaction with a carrier gas at constant flow rate (ex.: Helium). Laboratory analytical procedures typically utilize a syringe for transferring LFG field samples to the coupled GC-MS system. Field GC-MS units are not typically deployed to the wellheads, and the industry's more recent selection of instrumentation is various analyzer sensors, as demonstrated by the LoCI and APIS automated wellhead units; however, because any of this instrumentation requires the LFG sample to be removed out of the wellhead and through a sample conditioning apparatus and into a control panel containing the GC-MS unit (or analyzer sensors in the case of the LoCI and APIS equipment), it is not intrinsically safe and does not conform to electrical hazard classification requirements.

The Reaction Committee does not recommend the use of field GC-MS units at ETLF sites for the following reasons:

- The field GC-MS units are generally not rated for analyzing gas samples with a temperature exceeding 140 degrees Fahrenheit.
- The sample filters and conditioning apparatus will likely become frequently clogged because of the moisture content and solids content present in the reaction gas.
- Concerns regarding intrinsically safe rating.
- The field GC-MS gas analyzer components may malfunction since the internal gas molecule reactions within the analyzer, from heating the liquid sample to transporting vaporized compounds and ionization energy processes, are heavily dependent on temperature.

In-Line Sensors: A variety of electrochemical or infrared sensors can be deployed directly into the gas stream in the wellhead and connected via signal wire to a control panel for the measurement of fixed gas compounds. This eliminates the safety concern with electric hazard classification inherent with the sample filter apparatus and field GC-MS units contained in a box affixed to the wellhead. However, similar to field GC-MS units, the in-line sensors may not be viable for the high-temperature environment with the reaction gas extracted through the wellheads at ETLF sites.

Flow

For wellheads that employ an orifice plate as the flow measurement device, the differential pressure measurement can be measured by a pressure transducer and used to calculate an estimated flow. However, the wellheads installed at ETLF sites typically omit the orifice plate because it acts to restrict flow, which would be detrimental to the objective of maximizing heat removal through gas extraction at the wellhead. Accordingly, wellhead LFG flow measurement is typically excluded at wells positioned within the Reaction Area at ETLF sites.

Liquid Levels

There are two types of liquid level measurement devices commonly utilized in the LFG industry.

Submersible Level Transducer: The submersible level transducer requires a source of electric power and operates on the principle of differential pressure between the portion of the sensor submerged into the liquid present in the well and the portion maintained at atmospheric gage pressure in a control panel. An impediment to using this type of sensor at ETLF sites is that it is not rated for exposure to high temperatures.

Bubbler Level: The bubbler level requires a source of pneumatic supply and operates on the principle of measuring the pneumatic pressure required to release an air bubble from the bottom discharge opening of the housing tube submerged into the liquid present in the well. While it can operate in high temperature environments, one disadvantage is that it releases air into the LFG stream extracted from the well.

Wellhead Control Valve

The Reaction Committee is aware of three firms that offer a factory-fabricated automated wellhead with remote monitoring and remote control capabilities, as described below:

LoCI Methane Capture & Emission Reduction: According to the LoCI website, the LoCI Controller automated wellhead is a "wellhead-mounted device that captures data and enables measurement and control at each gas collection point." Along with the LoCI Liquid Level Measurement equipment, a listing of the components, features, and capabilities can be reviewed at https://locicontrols.com/loci-system.

SCS has extensive experience with the LoCI automated wellhead units deployed at numerous landfill sites, most commonly for the purpose of maximizing methane content for high-Btu energy recovery projects. Landfills that experiment with using these units often decide to discontinue and remove the equipment because the equipment provides no benefit to the efficiency and efficacy of the LFG collection system. SCS is not aware of the installation of LoCI automated wellheads or Liquid Level Measurement equipment at any ETLF sites. It is recognized that maximizing methane content is not relevant for the Reaction Area since it is not experiencing typical methanogenesis.

APIS Innovation: According to the APIS distributor website, the APIS smartWell automated wellhead device "places every component required for precision gas system tuning on each gas well in a solar-powered, wireless, self-contained, and practically maintenance-free package." A listing of the components, features, and capabilities can be reviewed at https://www.apisinnovation.com/products or https://www.ryanequipment.com/services-2. SCS is aware of one landfill in the northwestern US that has installed APIS units, but cannot comment on their performance. SCS is not aware of the installation of APIS automated wellhead equipment at any ETLF sites.

SCS-RMC: To-date, the SCS-RMC automated wellhead device has not been deployed on a broad scale (greater than 50 units) at multiple landfill sites. Unlike the LoCI and APIS units, the SCS-RMC automated wellhead utilizes in-line sensor technology and does not require pulling a gas sample into an analyzer sensor, thus, it avoids concerns with electrical hazard classification requirements and is intrinsically safe. Similar to the analyzer sensor equipment associated with the LoCI and APIS units, the in-line sensors may not be suitable for high-temperature environments, and they do not have experience on ETLF sites.

Telemetry System

The Reaction Committee has reviewed documentation, titled "Telemetry System Specifications", prepared by SCS and dated March 6, 2024, which outlines the proposed on-site telemetry hardware and software equipment. Based on discussions with the design engineers for the proposed telemetry system, and experience at other ETLF sites that have installed similar remote monitoring equipment, the Reaction Committee anticipates that this proposed system can be augmented to incorporate data obtained from the automated remote monitoring devices that are installed at the applicable LFG wells and wellheads.

RECOMMENDATIONS

Based on the information and considerations outlined in this Plan, and as more fully described above, the Reaction Committee offers the following recommendations for an automated remote monitoring system at the LFG wells and wellheads positioned within the Initial Reaction Area:

- **Pressure:** Install a single compound range (100 in-wc.) electronic pressure transmitter in the wellhead assembly upstream of the wellhead control valve to measure the static pressure (applied vacuum) in the well. The pressure transmitter shall be connected to an IIoT device on the wellhead.

- **Temperature:** Install three (3) high-temperature thermocouples encased in a stainless steel tubing jacket with powdered magnesium oxide in the interstitial space suspended into the well riser pipe at 40-foot depth intervals. These thermocouples shall be connected to an IIoT device on the wellhead.

- **Gas Composition:** The Reaction Committee does not recommend the deployment of either field GC-MS units or in-line sensors for wells within the Reaction Area at this time because we do not believe the instrumentation is appropriately rated to provide valid data for the high-temperature reaction gas being extracted at ETLF sites. Furthermore, we are concerned that the GC-MS units will be subject to frequent fouling because of solids and liquids in the gas stream and we are concerned that these units do not conform to electrical classification requirements.

- **Flow:** The Reaction Committee does not believe it is viable to provide remote monitoring capabilities for gas flowrate because the wellheads within the Reaction Area are typically not equipped with a flow measurement device since the device serves as a detrimental restriction to fluid extraction. We recommend installing a pneumatic cycle counter at each well equipped with a dedicated pneumatic pump. These cycle counters shall be connected to an IIoT device on the wellhead.

- **Liquid Level:** Install a bubbler liquid level measurement device at each well equipped with a pneumatic pump and pneumatic supply line. These bubbler levels shall be connected to an IIoT device on the wellhead. We recommend that any electric pumps in wells be equipped with a submersible level transducer as a pilot test to assess the function and viability of this instrumentation. If these transducers prove to be problematic regarding compatibility with leachate and/or high-temperatures, we recommend that wells with electric pumps be equipped with electric-powered bubbler level equipment.

- **Wellhead Control Valve:** The Reaction Committee does not recommend automated wellheads be introduced for ETLF wells at the Landfill based on the rationale presented under the Gas Composition section above. Also, considering the collective experience that automated wellheads have been decommissioned from typical MSW sites due to detrimental performance as frequently as they have been commissioned, we do not believe that they will prove beneficial at ETLF sites. While the algorithm for high-BTU landfill gas-to-energy sites is fairly straight-forward, the criteria governing the adjustment of the control valve at an ETLF site would likely result in undesirable consequences with respect to throttling the valve open or closed.

- **Telemetry:** Install a single battery or solar-powered cellular remote IIoT device at each wellhead being equipped with remote monitoring instrumentation to compile the pressure and temperature measurement values from the instrumentation. This IIoT device shall power the sensors and communicate data to a cloud-based Supervisory Control and Data Acquisition (SCADA) system in accordance with the telemetry system specifications outlined in the documentation previously referenced.

Please contact the Reaction Committee if there are any questions regarding this evaluation and the recommendations, or if further information related to automated remoted monitoring system instrumentation and equipment is required.

September 17, 2024

Mr. Steve Cassulo
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, CA 91384

Subject: Response to South Coast Air Quality Management Stipulated Order for Abatement in Case No. 6177-4 Condition 66(a)(ii)
Chiquita Canyon Landfill, Castaic, California

Dear Mr. Cassulo,

On behalf of Chiquita Canyon, LLC (Chiquita), SCS Engineers (SCS) hereby submits this letter in response to Condition No. 66(a)(ii) in the Stipulated Order for Abatement in Case No. 6177-4 (SOFA) with the South Coast Air Quality Management District (South Coast AQMD). Condition No. 66(a)(ii) states:

> *ii. Submit all known information of design, implementation, installation, and specification issues/concerns by no later than September 17, 2024. This shall include documented correspondence and correspondence reports (for live correspondence prior to August 17, 2024) summarizing results of all communication with system, device, and component vendors/manufacturers and/or contractors identifying the following, including, but not limited to:*
>
> > *1. the system, device, and component viability and availability, and*
> >
> > *2. the system, device, and component design, implementation, installation, and specification issues, such as compatibility, physical constraints, specifications falling short of operational need, and supply chain timelines.*

Based on the Reaction Committee's recommendations and issues identified in the April 19, 2024 submission to the South Coast AQMD, document titled "LFG Wellfield Automated Remote Monitoring Plan", and upon further analysis, the initial pilot program for six (6) wells to evaluate the feasibility of the remote monitoring system was implemented.

The original design for the six (6) pilot remotely monitored landfill gas wells to meet the original requirements of the SOFA included the following key system components:

- Component 1: three (3) down-well thermocouples to measure temperature at varying depths;
- Component 2: one (1) down-well level transducer to measure liquid level within the well;
- Component 3: one (1) top-mounted pressure transducer to measure vacuum applied to the wellhead;
- Component 4: one (1) industrial cellular IIoT device to gather data from the sensors and transmit it to SCS' cloud-based Supervisory Control and Data Acquisition system for remote monitoring, alarming, and reporting;

- Component 5: two (2) remote input cards to gather data from the sensors and transmit it to the IIoT device; and
- Component 6: one (1) solar power system to source 12-VDC for the sensors and IIoT device

Details of these key system components' impacts on the project schedule for the initial six (6) pilot wells are below. Documentation of email correspondence including the quote requests to vendors, quotes for the equipment, and purchase orders issued for the equipment are provided in the attachments.

Each of the down-well components described below poses a risk of entanglement, interference with pumping systems, obstruction of the well, and subsequent failure, and are no longer required as part of the modifications to the SOFA.

There is also a risk that the down-well and top-mounted components may not have long-term computability with the ETLF conditions, including the elevated temperatures, build-up from debris in the liquids, and chemical compatibility with the liquids.

Due to the modifications to Condition No. 66 (a) on August 27, 2024, to evaluate the feasibility of measuring the temperature and pressure at the well head, the equipment identified below, other than Components 3 and 4, is no longer required. We are providing this response to satisfy Condition No. 66 (a)(ii).

Original Component 1: Down-Well Thermocouples

SCS has successfully utilized down-well thermocouples in multiple installations at multiple sites. Based on our experience, we specified a known sensor that has proven compatible at other landfills that have similar sub-surface conditions. These specific sensors were custom-manufactured by Chicago Electrical Laboratories, Inc. The lead time for these sensors was approximately two (2) weeks for the initial six (6) pilot wells.

This down-well component poses a risk of entanglement, interference with pumping systems, obstruction of the well, and subsequent failure, and is no longer required as part of the modifications to the SOFA.

Original Component 2: Down-Well Level Transducers

Level transducers are widely used in the landfill industry for level measurement. Installing these devices in the anticipated conditions at CCL with the landfill gas wells in the reaction area poses a challenge. SCS evaluated level transducers from several vendors to identify sensors that could withstand elevated temperatures while also meeting the electrical area hazardous classification rating. We identified sensors from the vendors below and compared their specifications to choose a sensor with the highest temperature rating that met the hazardous classification.

Sensors Evaluated:

- APG
- Dwyer
- Ametek STC
- IFM

- Omega
- Vega
- Endress & Hauser
- Ashcroft
- Wika Instrument, LP

SCS chose the level sensor manufactured by Wika Instrument, LP, as it had the highest environmental temperature rating of the sensors compared. These sensors had to be custom-ordered because of the custom cable required for the higher temperature rating. When placing the order, the lead time for these custom level sensors was originally six to seven (6-7) weeks for the initial six (6) pilot wells. The lead time from the factory later changed to nine (9) weeks for the initial six (6) pilot wells. These sensors are anticipated to ship on September 20, 2024. The lead time of this component impacted the original project schedule.

This down-well component poses a risk of entanglement, interference with pumping systems, obstruction of the well, and subsequent failure, and is no longer required as part of the modifications to the SOFA.

Original Component 3: Top-Mounted Pressure Transducers

SCS has successfully utilized pressure transducers to measure applied vacuum in gas collection systems at multiple sites. Based on our experience, we specified a sensor that we have used at other landfills. We selected a cooling adapter for the sensors to increase the device temperature rating to 300 degrees Fahrenheit. The sensors and cooling adapters are manufactured by Wika Instrument, LP. These sensors were custom-ordered to meet the compound pressure range required to investigate their feasibility to monitor vacuum and positive pressures. The lead time for these custom scaled sensors was six to seven (6-7) weeks for the initial six (6) pilot wells.

Original Component 4: Industrial IIoT Devices

SCS has successfully utilized Cellular IIoT devices in various applications at multiple locations at CCL as well as at multiple other sites. Based on our experience, we specified a SignalFire Telemetry Ranger Cellular IIoT device to gather signals from the wellhead sensors and transmit data back to SCS' SCSRMC.com cloud-based Supervisory Control and Data Acquisition platform. These devices are stock items available in two to four (2-4) weeks for the initial six (6) pilot wells.

Original Component 5: Remote Input Cards

SCS has successfully utilized remote input cards that are compatible with the selected cellular IIoT devices in various applications at multiple locations at CCL as well as at multiple other sites. Based on our experience, we specified thermocouple and analog input cards manufactured by Horner Automation Group to convert signals from the wellhead sensors and transmit to the IIoT device. These devices are stock items available in two to three (2-3) weeks for the initial six (6) pilot wells.

Original Component 6: Solar Power System

SCS has successfully designed and built solar-powered systems for remote monitoring applications at multiple sites, including CCL. We designed the solar power systems for this project to provide power to the sensors and Cellular IIoT devices at each location. The components are stock items from various suppliers with the longest lead time of approximately two (2) weeks for the initial six (6) pilot wells. Additional time was necessary to fabricate the solar power systems.

The solar power systems are no longer necessary due to the reduced power requirements of the modified design.

Longer lead times for components would be expected for larger orders, particularly for custom components. The fabrication, installation, and commissioning timeline also increases with the number of devices required due to the necessity to ensure availability of qualified staff and field personnel.

If you have any questions regarding the information contained in this submittal, please contact the undersigned.

Sincerely,

Sam Dean
Senior Project Manager, SCS RMC
SCS Engineers

Arthur E Jones, Jr.
Regional Manager, VP
SCS Engineers

CC:

Nicole Ward, Chiquita Canyon, LLC
Amanda Froman, Chiquita Canyon, LLC
Baitong Chen, South Coast AQMD
Nathaniel Dickel, South Coast AQMD
Christina Ojeda, South Coast AQMD

ATTACHMENTS

ATTACHMENT 1 – COMPONENT 1 - DOWN-WELL THERMOCOUPLES

Dean, Samuel

From: Sedillo, Dana
Sent: Tuesday, July 23, 2024 11:19 AM
To: Jim Reinsel
Cc: Dean, Samuel
Subject: RE: QUOTE 211221
Attachments: 07-RMC00549R Cleveland Electrica Labs.pdf

Good Morning!

See the attached revised PO 07-RMC00549R

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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www.scsengineers.com

From: Sedillo, Dana
Sent: Monday, July 22, 2024 2:01 PM
To: Jim Reinsel [redacted]
Cc: Dean, Samuel [redacted]
Subject: RE: QUOTE 211221

Please disregard the PO I just sent.
I will be following up with a revised one.

Sorry for any confusion.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

Driven by Client Success
www.scsengineers.com

From: Sedillo, Dana
Sent: Monday, July 22, 2024 1:47 PM
To: Jim Reinsel [redacted]

Cc: Dean, Samuel [redacted]
Subject: RE: QUOTE 211221

Thank you, Jim.

Please see the revised quote attached.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

Driven by Client Success
www.scsengineers.com

From: Jim Reinsel [redacted]
Sent: Monday, July 22, 2024 10:12 AM
To: Sedillo, Dana [redacted]
Cc: Dean, Samuel [redacted]
Subject: QUOTE 211221

For your review.

From: Sedillo, Dana [redacted]
Sent: Friday, July 19, 2024 5:35 PM
To: Jim Reinsel [redacted]
Cc: Dean, Samuel [redacted]
Subject: RE: SCS 071924-1E
Importance: High

Hi Jim,

We just got some feedback and need to adjust two of the sensor lengths.
See the table below

Temp Sensor Count

20	5
40	1
60	5
80	1
87	1
92	1
100	3
115	1

120	1
130	1
140	1
160	1
	total
	22

Please let me know if you need a revised PO.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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From: Sedillo, Dana
Sent: Friday, July 19, 2024 2:10 PM
To: Jim Reinsel [redacted]
Cc: Dean, Samuel [redacted]
Subject: RE: SCS 071924-1E

Hi Jim,

See the attached PO 07-RMC00549.

Please provide tracking information when available.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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www.scsengineers.com

From: Jim Reinsel [redacted]
Sent: Friday, July 19, 2024 11:26 AM
To: Sedillo, Dana [redacted]
Cc: Dean, Samuel [redacted]
Subject: SCS 071924-1E

Good afternoon,

Thank you for your request. We are pleased to quote you on the following:

QUOTE NO. SCS 071924-1E

Qty. 5	MGO-K-3-4-U-240-5-120-E-00-04-0	[redacted]/each
Qty. 1	MGO-K-3-4-U-480-5-120-E-00-04-0	[redacted]/each
Qty. 5	MGO-K-3-4-U-720-5-120-E-00-04-0	[redacted]/each
Qty. 1	MGO-K-3-4-U-960-5-120-E-00-04-0	[redacted]/each
Qty. 1	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1044” long	[redacted]/each
Qty. 1	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1104” long	[redacted]/each
Qty. 3	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1200” long	[redacted]/each
Qty. 1	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1400” long	[redacted]/each
Qty. 1	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1464” long	[redacted]/each
Qty. 2	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1680” long	[redacted]/each
Qty. 1	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1920” long	[redacted]/each

Best regards,

Jim

Jim Reinsel | Business Development Manager
CLEVELAND ELECTRIC LABS | Temperature Control Group
[redacted] Direct Line

1776 Enterprise Parkway | Twinsburg, OH 44087
E-mail: [redacted] / Office: [redacted] / Fax: [redacted] / Internet: www.clevelandelectriclabs.com

From: Sedillo, Dana [redacted]
Sent: Thursday, July 18, 2024 3:40 PM
To: Jim Reinsel [redacted]
Cc: Dean, Samuel [redacted]
Subject: RE: Quote Request

Hi Jim!

Can we get a quote for the following temp sensors?

P/N: MGO-K-3-4-U-___-5-120-E-04-0-0
240
480
720
960
1044
1104
1200
1400
1464
1680
1920

Length in ft	quantity
20	5
40	1
60	5
80	1
87	1
92	1
100	3
120	1
122	1
140	2

160	1
	22 total

Please note Chiquita

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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www.scsengineers.com

From: Jim Reinsel [redacted]
Sent: Thursday, July 18, 2024 10:18 AM
To: Dean, Samuel [redacted]
Cc: Sedillo, Dana [redacted]
Subject: RE: Quote Request

Hey Sam!

Nice to hear from you. And hello to you Dana.

As always, we are here to serve you folks with whatever you need.

Best regards,

Jim

Jim Reinsel | Business Development Manager
CLEVELAND ELECTRIC LABS | Temperature Control Group
[redacted] Direct Line

1776 Enterprise Parkway | Twinsburg, OH 44087
E-mail: [redacted] / Office: [redacted] / Fax: [redacted] / Internet: www.clevelandelectriclabs.com

From: Dean, Samuel [redacted]
Sent: Thursday, July 18, 2024 1:10 PM
To: Jim Reinsel [redacted]
Cc: Sedillo, Dana [redacted]
Subject: RE: Request

Hi Jim,

I hope this finds you well. We have a new project for Chiquita Landfill and need to get a number of temp sensors orders. I am going to have Dana on our end coordinate with you.

I just wanted to give you a heads up and share contact info so Dana can reach out to you.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

External
External
External

SCS FIELD SERVICES

Purchase Order 07-RMC00549R

DATE 7/23/24

TO	SHIP TO	BILL TO
Cleveland Electric Labs dba 0087056 **The Cleveland Electric** **Laboratories Company Inc** THE CLEVELAND ELECTRIC LABORATORIES COMPANY INC DBA CLEVELAND ELECTRIC LABS 1776 Enterprise Way Twinsburg, OH 44087 PHONE [redacted] FAX [redacted] E-MAIL [redacted]	**Sam Dean** Attn: Chiquita Wellheads 2403 Hilltown Pike Perkasie, PA 18944	**SCS Field Services** Accounts Payable 3900 Kilroy Airport Way Suite 100 Long Beach, CA 90806 PHONE [redacted] FAX [redacted] E-MAIL 07fsaccountspayable@scsengineers.com

P.O. NUMBER	ORDER DATE	BUYER	PAY TERMS	EXCESS RECV	EXCESS %	EXCESS AMOUNT
07-RMC00549R	7/22/24	Kessler Sweeney, Kim	45	N		

AGREEMENT TERMS

Vendor Acceptance:

BY SIGNING, VENDOR AGREES TO THE TERMS IN ARTICLES ON THE FOLLOWING PAGES OF THIS ORDER, AND ANY ADDITIONAL TERMS NOTED HEREIN.

By: _____

Date:_____

Seq	Description	Quantity		Unit Price	Net Amount	Due Date
1	MGO-K-3-4-U-240-5-120-E-00-04-0	5.00	Each	[redacted]	[redacted]	10/18/2023
2	MGO-K-3-4-U-480-5-120-E-00-04-0	1.00	Each	[redacted]	[redacted]	10/18/2023
3	MGO-K-3-4-U-720-5-120-E-00-04-0	5.00	Each	[redacted]	[redacted]	10/18/2023
4	MGO-K-3-4-U-960-5-120-E-00-04-0	1.00	Each	[redacted]	[redacted]	10/18/2023
5	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1044” long	1.00	Each	[redacted]	[redacted]	10/18/2023
6	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1104” long	1.00	Each	[redacted]	[redacted]	10/18/2023
7	MGO-K-3-4-U-XXX-5-120-E-00-04-0 XXX= 1200” long	3.00	Each	[redacted]	[redacted]	10/18/2023
8	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (115FT)	1.00	Each	[redacted]	[redacted]	10/18/2023
9	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (120FT)	1.00	Each	[redacted]	[redacted]	10/18/2023
10	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (130FT)	1.00	Each	[redacted]	[redacted]	10/18/2023
11	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (140FT)	1.00	Each	[redacted]	[redacted]	10/18/2023
12	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (160FT)	1.00	Each	[redacted]	[redacted]	10/18/2023

Seq	Description	Quantity		Unit Price	Net Amount	Due Date
13	ESTIMATED Tax and Shipping	1.00	Each	[redacted]	[redacted]	10/18/2023

Total
[redacted]

GENERAL PROVISIONS OF PURCHASE ORDER

1. ACCEPTANCE – This Purchase Order represents the entire contract between Seller and SCS Engineers, hereinafter referred to as Buyer, notwithstanding any failure to sign and return the acknowledgement copy of this Purchase Order or Seller's use of any other acknowledgement form not signed by Buyer. It is expressly understood and agreed that Seller, by commencing work hereunder, accepts this Purchase Order as a binding contract and agrees to all of the terms and conditions hereof. No change, modification, revision, or addition to this Purchase Order shall be valid and binding on Buyer unless in writing and signed by an authorized representative of Buyer.

2. ASSIGNMENT – This Purchase Order shall not be assignable by Seller, voluntarily or involuntarily, nor shall a subcontract be made with, or other delegation of duties made to, any other party for the furnishing of any of the completed or substantially completed items of work covered by this Purchase Order, without Buyer's prior written consent. Any such attempted assignment or delegation shall be void and ineffective.

3. BUYER'S PROPERTY – All property used by Seller but owned, furnished, or charged to or paid for by Buyer, including, but not limited to, materials, tools, dies, jigs, patterns, fixtures, equipment, and any replacement thereof, shall be the property of Buyer, subject to removal and inspection by Buyer at any time, without cost or expense to Buyer. All such property shall be identified and marked as Buyer's property, used only for this Purchase Order, and adequately insured for Buyer's protection. Seller shall assume all liability for and maintain and repair such property, and remove or return the same to Buyer in good condition, reasonable wear and tear excepted, and except for the utilization of the property in accordance with the provisions of this Purchase Order.

4. CHANGES – Buyer shall have the right at any time to make changes in the drawings, designs, specifications, quantities, delivery schedules, methods of shipment or packaging, and place of inspection, acceptance and/or point of delivery of any items or work covered by this Purchase Order. No change shall be effective unless authorized in writing by Buyer. If such changes result in delay or an increase or decrease in expense to Seller, Seller shall notify Buyer immediately and an equitable adjustment shall be negotiated; provided, however, the Seller shall, in all events, proceed diligently to perform the work or supply the items contracted for under this Purchase Order, as so changed.

5. COMPLIANCE WITH LAWS – Seller shall comply with all applicable federal, state, and local laws, executive orders, and regulations in performing this Purchase Order. On request, Seller shall furnish Buyer with certificates of compliance concerning any or all such laws, orders, and regulations. Seller hereby agrees to defend, indemnify, and hold Buyer harmless of and from any and all costs, damages, penalties, fines, and expenses (including reasonable attorneys' fees) suffered or occasioned by Buyer, directly or indirectly, through any failure of Seller to comply with any such law, regulations, or order.

6. EQUAL EMPLOYMENT OPPORTUNITY – **This Buyer and Seller shall abide by the requirements of** 41 CFR 60-1.4(a), 60-300.5(a) **and** 60-741.5(a)**. These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status.**

7. HEALTH AND SAFETY – All items to be supplied and services to be rendered hereunder by Seller shall conform in all respects to the requirements of all applicable insurance and governmental health and safety regulations, including regulations administered under the provisions of the Occupational Safety and Health Act.

8. DELIVERY – Seller shall follow the delivery schedule shown on the face hereof and shall not make deliveries later or substantially earlier than the dates shown. If any items are shipped substantially in advance of scheduled delivery dates, Buyer may return or store them at Seller's expense. If Seller does not adhere to the delivery schedule, Buyer may either agree to a revised delivery schedule or terminate this Purchase Order, without liability to Buyer, for cause, as provided below. Time shall be considered of the essence in the performance of this Purchase Order by Seller.

9. DRAWINGS, SPECIFICATIONS, AND TECHNICAL INFORMATION – All drawings, data, designs, inventions, and other technical information supplied by Buyer to Seller shall remain Buyer's property and shall be held in confidence by Seller. Such information shall not be reproduced, used, or disclosed to others by Seller, without Buyer's prior written consent, and shall be returned to Buyer upon completion of this Purchase Order or upon demand. Any information that Seller may disclose to Buyer with respect to the design, manufacture, sale, or use of the items covered by this Purchase Order shall be deemed to have been disclosed as part of the consideration for this Purchase Order, and Seller shall not assert any claim against Buyer by reason of Buyer's use thereof. Buyer does not grant any indemnity to Seller hereunder for infringement of any patent, trademark, copyright, or data rights utilized by Seller, whether provided by Buyer or any third party.

10. INSPECTION AND ACCEPTANCE – Unless otherwise specified herein, all items will be subject to final inspection and acceptance at Buyer's plant or other designated destination, notwithstanding any prior payment or inspection and acceptance. Buyer may, at its option, hold any rejected items for Seller's instructions and at Seller's risk, or return them to Seller at Seller's expense, and Seller shall promptly reimburse Buyer for any and all damages sustained by Buyer as a result of Seller's breach of warranty or any of its other obligations hereunder. No replacement or correction of rejected items shall be made, unless otherwise specified by Buyer on Buyer's return material order. All rejects will be charged back at full billing price, plus the cost of inbound and out bound freight and handling.

11. LEGAL CONSTRUCTION – This Purchase Order shall be construed under and shall be subject to the laws of the Commonwealth of Virginia.

12. LIENS – All items shall be delivered hereunder, and all property to be returned to Buyer shall be kept, at all times, free and clear of any and all liens and encumbrances whatsoever, and Seller shall defend, indemnify, and hold Buyer harmless from and against all claims and liens of any and all persons or firms, based upon the furnishing of labor and/or materials in connection with the items or work ordered hereby.

13. PACKING, SHIPPING, AND INSURANCE – No charges will be allowed by Buyer for boxing, wrapping, cartage, or storage other than those specified in this Purchase Order. Seller shall pack or otherwise prepare all items for shipment so as to secure the lowest transportation and insurance rates consistent with timely delivery, meeting carrier's requirements, and safeguarding against damage from weather, transportation, and storage. Delivery will be F.O.B. destination unless otherwise specified in this Purchase Order.

14. INTELLECTUAL PROPERTY PROTECTION – To the extent that the items covered by this Purchase Order are manufactured pursuant to designs not originated by Buyer, Seller shall indemnify and hold Buyer, its representatives and customers, harmless from and against any expense (including reasonable attorneys' fees), claims, cost, loss, damage, or liability for infringement or alleged infringement of any patents, copyrights, or other proprietary rights with respect to such items and their process of manufacture, and Seller hereby agrees at its own expense to defend or assist in the defense of, at Buyer's option, any action in which such infringement is alleged with respect to the manufacture, sale, or use of such items delivered hereunder. Any reports, drawings, renderings, source and object code, algorithms, routines, formulae, programming, software and other works and documents ("Works") provided to Seller by Buyer or its employees, consultants, subcontractors or agents, and all intellectual property ("IP") rights in the same, shall be owned exclusively by Buyer. Additionally, this Purchase Order shall operate as an irrevocable transfer and assignment to Buyer of all right, title, and interest, including all copyrights, in and to any IP, Works, and forms of expression and communication now known or later developed, conceived or created as part of Seller's performance under this Purchase Order.

15. PAYMENT – Invoices will be paid according to discount terms, or, if no discount is offered, within forty-five (45) days after receipt and acceptance of the items, completion and acceptance of the work, and receipt of a correct invoice. Discount periods will be computed from either the date of delivery of the items ordered, plus three days' allowance for inspection, or the date of receipt of correct invoices prepared in accordance with the terms of this Purchase Order, whichever date is later.

16. TAXES – The price includes all Federal, state, and local taxes, duties or levies of any nature. All such taxes, duties or levies shall be stated separately in this Purchase Order. Buyer shall be responsible to pay only for such taxes as are approved in the Purchase Order and separately stated in Seller's invoice.

17. TERMINATION – (A) Without cause – Buyer shall have the right to terminate this Purchase Order for convenience in whole, or, from time to time, in part. In such event, and provided the items ordered are not standard commercial items, Buyer's sole and maximum liability shall be limited to payment (1) for completed and delivered items at Purchase Order price, and (2) of costs directly attributable to incomplete items, plus a profit thereon, not to exceed eight (8) percent. Buyer shall have the right to delivery of items partially fabricated and to all unused material and inventory acquired and included in Seller's claim, or to credit for the agreed value thereof. If the items ordered are standard commercial items, Buyer shall have the right to terminate the Purchase Order for convenience, in whole, or, from time to time, in part, without any obligation or liability whatsoever, except for payment of items delivered prior to such termination.

(B) With cause – If Seller fails to make any deliver in accordance with the agreed delivery date or schedule, fails to observe or comply with any of the other instructions, terms, conditions, or warranties applicable to this Purchase Order, fails to make progress so as to endanger performance of the Purchase Order, or, in the event that Seller becomes insolvent, any proceedings are commended by or against Seller in bankruptcy or insolvency, a receiver or trustee is appointed, or an assignment for the benefit of creditors is made, Buyer may, in addition to any other right or remedy provided by this Purchase Order or by Law, terminate all of any part of this Purchase Order by written notice to Seller, without any liability of Buyer to Seller on account thereof.

In the event of termination for cause, Buyer may produce or purchase, or otherwise acquire, such items or work elsewhere on such terms or in such manner as Buyer may deem appropriate, and Seller shall be liable to Buyer for any excess cost or other expenses incurred or damages suffered by Buyer.

18. SUSPENSION OF WORK – Buyer may order Seller in writing to suspend, delay, or interrupt all or any part of the work for a period not to exceed ninety (90) consecutive days. An equitable adjustment shall be made for any verifiable increase in cost of performance of the Purchase Order (excluding profit) necessarily caused by suspensions beyond ninety (90) days. An equitable adjustment shall also be made in any verifiable extension to the delivery or performance dates necessarily caused by suspensions beyond ninety (90) days. However, no adjustment shall be made for any suspension, delay, or interruptions to the extent that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of Seller. Also, no adjustment shall be made under this clause for any suspension, delay, or interruption for which an equitable adjustment is provided for or excluded under any other provision of this Purchase Order. No claim under this clause shall be allowed unless the claim, in an amount stated, is asserted in writing within thirty (30) days after the termination of such suspension, delay, or interruption.

19. INDEMNIFICATION AND INSURANCE – If Seller's agents, employees, or subcontractors enter upon premises occupied by or under the control of Buyer, or any of its customers or suppliers, in the course of the performance of this Purchase Order, Seller shall take all necessary precautions to prevent the occurrence of any injury (including death) to any person or any damage to any property arising out of any acts or omissions of Seller, or any of Seller's agents, employees, or subcontractors, except for injury or damage due solely and directly to Buyer's negligence. Seller shall defend, indemnify, and hold Buyer harmless from and against any suits, liabilities, losses, damages, claims, causes of action, and expenses (including reasonable attorneys' fees), arising out of or connected with any act or omission with respect to this Purchase Order of Seller, its agents, employees, or subcontractors. Seller shall maintain such commercial general liability, automobile liability, property damage, workman's compensation, and employer's liability insurance as will protect Buyer from any of said risks and from any claims under any applicable workman's compensation acts or as directed by Buyer. If performance under this Purchase Order includes the transportation of hazardous or toxic chemicals, materials, substances, or any other pollutants, Seller shall provide Hazardous Transporters Pollution Liability Insurance (MCS-90 or equivalent) appropriate to cover such activities in an amount not less than Ten Million Dollars ($10,000,000) combined single limit per occurrence and in the aggregate for bodily injury, property damage and remediation. Upon request of Buyer, Seller shall furnish Buyer with certificates of such insurance, which will provide that at least thirty (30) days' prior notice, in writing, shall be given to Buyer of cancellation or reduction of coverage, and will name Buyer as an additional insured on such policies.

20. TITLE AND RISK OF LOSS – Except as otherwise expressly provided herein, title to and risk of loss or damage to all items shipped by Seller to Buyer shall pass to Buyer upon acceptance at the destination point designated on the face of this Purchase Order. Cost of all return shipments, including risk of loss therefor, for whatever reason returned, shall be borne by Seller, with title and risk of loss deemed to have remained with Seller and never having passed to Buyer.

21. WAIVER OF TERMS AND CONDITIONS – The failure of Buyer, in any one or more instances, to insist upon performance of any of the terms or conditions of this Purchase Order, or to exercise any right or privilege contained in this Purchase Order, or the waiver of any breach of the terms or conditions of this Purchase Order, shall not be construed as thereafter waiving any such terms, conditions, or privileges, and the same shall continue and remain in force and effect as if no waiver had occurred.

22. WARRANTIES – SELLER WARRANTS THAT THE ITEMS AND WORK DESCRIBED HEREIN SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS, SHALL STRICTLY CONFORM TO APPLICABLE SPECIFICATIONS, DRAWINGS, AND APPROVED SAMPLES, IF ANY, INCLUDING PERFORMANCE SPECIFICATIONS, AND SHALL BE OF MERCHANTABLE QUALITY AND FIT FOR THE PURPOSE FOR WHICH PURCHASED AND, IF OF SELLER'S DESIGN, SHALL BE FREE FROM DESIGN DEFECTS. These warranties shall be in addition to any other warranties, express, implied, or statutory, applicable to this Purchase Order. All warranties shall run to Buyer, its customers, and subsequent users or owners of the items or the end products of which they are a part. Seller agrees, at its expense, to defend or assist in the defense of any action, at Buyer' option, against Buyer, its customers, or subsequent users, insofar as such action is based upon the breach or alleged breach of any of the foregoing warranties. Seller hereby agrees to defend, indemnify, and hold Buyer, its customers, and subsequent users or owners harmless from and against all liabilities, loss, costs, damages, and expenses, including reasonable attorneys' fees, resulting from any breach of the foregoing warranties. Notice of any breach of warranty shall be deemed sufficient if given to Seller within ninety (90) days after discovery thereof.

23. GOVERNMENT CONTRACT – In the event that this Purchase Order bears a governmental contract number on the designation "Government" on the face hereof, this order and the contract resulting therefrom shall be subject to all applicable provisions of, and shall be deemed to contain and have incorporated herein, all clauses and provisions required by the terms of the government contract under which, or for which, this Purchase Order is issued and by any applicable federal laws and regulations.

24. INDEPENDENT CONTRACTOR – All work to be performed by Seller hereunder shall be performed as an independent contractor and not as an employee or agent of Buyer, and entirely at the risk of Seller.

25. EVENTS BEYOND CONTROL OF PARTIES – Neither party shall be liable to the other hereunder for any delay or failure of performance due to fire, earthquake, flood, explosion, accident, dispute with or inability to secure workmen, lack of material, lack of facilities, Act of God, voluntary or involuntary compliance with any valid or invalid law, order, regulation, request or recommendation of any governmental agency or authority, lack of transportation facilities, epidemic, pandemic, quarantine, or any other cause beyond its control and without its fault or negligence, provided, however, that when Seller has reason to believe that its performance hereunder as scheduled will thereby be affected, written notice setting forth the cause thereof and the extent of the delay shall be given immediately to Buyer.

CLEVELAND ELECTRIC LABORATORIES
Thermocouple Products & Services

Quotation: 211221

Contact:	
P:	
E:	

Cleveland Electric Labs
1776 Enterprise Parkway
Twinsburg, OH 44087
P: [redacted]
F: [redacted]

Bill To: 102858
SCS ENGINEERS ACCTS PAYABLE
EMAIL INVOICES TO:
01SWACCOUNTSPAYABLE@SCSENGINEERS.COM 3900
KILROY AIRPORT WAY SUITE 100
LONG BEACH, CA 90806

Ship To:
SAM DEAN
SCS FIELD SERVICES
CHIQUITA WELLHEADS 2403 HILLTOWN PIKE
PERKASIE, PA 18944
United States

Order Note:

Terms	Ship Via	Shipping Expense	Sales Person	Quoted By
CIA	UPS - Ground FOB Twinsburg, OH		Jim Reinsel	Jim Reinsel

07/22/2024

Lead Time:

Line No.	Item No.	Qty	Unit Price	Unit of Measure	Extended Price
1	MGO-K-3-4-U-240-5-120-E-00-04-0 SCS MGO-K-3-4-U-240-5-120-E-00-04-0	5	[redacted]	EA	[redacted]

Additional Description: UNGROUNDED JUNCTION, 240", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

2	MGO-K-3-4-U-480-5-120-E-00-04-0 SCS MGO-K-3-4-U-480-5-120-E-00-04-0	1	[redacted]	EA	[redacted]

Additional Description: UNGROUNDED JUNCTION, 480", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

3	MGO-K-3-4-U-720-5-120-E-00-04-0 SCS MGO-K-3-4-U-720-5-120-E-00-04-0	5	[redacted]	EA	[redacted]

Line No.	Item No.	Qty	Unit Price	Unit of Measure	Extended Price

Additional Description: UNGROUNDED JUNCTION, 720", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

4	MGO-K-3-4-U-960-5-120-E-00-04-0 SCS MGO-K-3-4-U-960-5-120-E-00-04-0	1	[redacted]	EA	[redacted]

Additional Description: UNGROUNDED JUNCTION, 960", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

5	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (87FT) MGO-K-3-4-U-XXX-5-120-E-00-04-0	1	[redacted]	EA	[redacted]

Additional Description: UNGROUNDED JUNCTION, XXX", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE) XXX=87 FT (1044IN)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

6	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (92FT) MGO-K-3-4-U-XXX-5-120-E-00-04-0	1	[redacted]	EA	[redacted]

Additional Description: UNGROUNDED JUNCTION, XXX", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE) XXX=92FT(1104IN)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

7	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (100FT) MGO-K-3-4-U-XXX-5-120-E-00-04-0	3	[redacted]	EA	[redacted]

Additional Description: UNGROUNDED JUNCTION, XXX", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE) XXX=100FT(1200IN)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

Line No.	Item No.	Qty	Unit Price	Unit of Measure	Extended Price
8	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (115FT)	1	[redacted]	EA	[redacted]
	MGO-K-3-4-U-XXX-5-120-E-00-04-0				

Additional Description: UNGROUNDED JUNCTION, XXX", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE) XXX=115FT(1380IN)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

9	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (120FT)	1	[redacted]	EA	[redacted]
	MGO-K-3-4-U-XXX-5-120-E-00-04-0				

Additional Description: UNGROUNDED JUNCTION, XXX", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE) XXX=120FT(1440IN)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

10	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (130FT)	1	[redacted]	EA	[redacted]
	MGO-K-3-4-U-XXX-5-120-E-00-04-0				

Additional Description: UNGROUNDED JUNCTION, XXX", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE) XXX= 130FT (1560IN)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

11	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (140FT)	1	[redacted]	EA	[redacted]
	MGO-K-3-4-U-XXX-5-120-E-00-04-0				

Additional Description: UNGROUNDED JUNCTION, XXX", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE) XXX=140FT(1680IN)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

12	MGO-K-3-4-U-XXX-5-120-E-00-04-0 SCS (160FT)	1	[redacted]	EA	[redacted]
	MGO-K-3-4-U-XXX-5-120-E-00-04-0				

Line No.	Item No.	Qty	Unit Price	Unit of Measure	Extended Price

Additional Description: UNGROUNDED JUNCTION, XXX", TEFLON INSULATION STD TEMP TRANS (400 DEG F), 120", SS ADJ COMP FTG - 1/8" NPT, QUICK DISCONNECT PLUGS (THERMOCOUPLE) XXX=160FT(1920IN)
T/C Type: K **Sheath:** 316SS **GA/Dia:** .125 (1/8)
Tolerance Limit: Special
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

Total [redacted]

Thank you for the opportunity to quote. If you have any questions, please contact the 'Quoted By' person referenced above. Please also reference our QUOTATION NUMBER on your purchase order.

Quote valid for 30 days. Products containing Platinum and/or Rhodium are subject to change. Please confirm current pricing at time of order. Due to Nickel price volatility, items may be adjusted at time of order and/or line-item surcharge applied, as necessary. Freight charges and taxes are not included in quote price. Stated lead time does not include transit and is subject to material availability at time of order. Spools of wire are shipped +/- 10% of order quantity. Any changes in quantity or item deletions may require new quotation. Any typographical errors are not binding.

Cleveland Electric Laboratories provides statements of compliance by applying a simple acceptance decision rule as defined in ILAC G8.09/2019. In applying this decision rule, the TUR (test uncertainty ratio) shall be equal to or greater than 1:1 and equal to or greater than 4:1 whenever practicable. Cleveland Electric Laboratories' default decision rule results in a worst-case estimated probability of false accept (PFA) of < 50%. If you require an alternate decision rule, please contact Cleveland Electric Laboratories with your request. Note: customer decision rules may result in a cost alteration to your calibration services.

ATTACHMENT 2 – COMPONENTS 2 & 3 - DOWN-WELL LEVEL TRANSDUCER AND TOP-MOUNTED PRESSURE TRANSDUCER

From: Sedillo, Dana
To: James Cagwin - Miller Energy
Cc: Dean, Samuel
Subject: RE: Chiquita quotes
Date: Tuesday, July 23, 2024 5:32:05 PM
Attachments: 07-RMC00551R Miller.pdf

Hi James,

See the attached revised PO 07-RMC00551R

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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www.scsengineers.com

From: James Cagwin - Miller Energy [redacted]
Sent: Monday, July 22, 2024 2:43 PM
To: Sedillo, Dana [redacted]
Cc: Dean, Samuel [redacted]
Subject: Re: Chiquita quotes

Hi Dana,

This just came through. Please see attached updated quote. Would it be possible to add to this order so it is one order and not two separate orders?

Thank you,

James Cagwin
Miller Energy, Inc.
505 Gordon Dr.
Exton, PA 19341
Cell: [redacted]
Office: [redacted]
Miller Energy Linecard

On Mon, Jul 22, 2024 at 5:38 PM Sedillo, Dana [redacted] wrote:

> Hi James,
>
> Please proceed with the processing of the items on the attached PO.
> I will send a separate PO for the remaining items we are waiting for.
>
> Thank You,
>
> Dana Sedillo
> Project Coordinator
> SCS RMC
> [redacted]
>
> **Driven by Client Success**
> www.scsengineers.com
>
> ---
>
> **From:** James Cagwin - Miller Energy [redacted]
> **Sent:** Monday, July 22, 2024 11:34 AM
> **To:** Sedillo, Dana [redacted]
> **Cc:** Dean, Samuel [redacted]
> **Subject:** Re: Chiquita quotes
>
> This email originated from outside of SCS Engineers. Do not click links or open attachments unless you recognize the sender and know the content is safe.
>
> Nothing yet, I've pinged them again for an update. Germany is closed by now. They are 6 hours ahead of us.
>
> James Cagwin Miller Energy Cell: [redacted] Ph: [redacted]
> www.millerenergy.com
>
> On Mon, Jul 22, 2024 at 2:29 PM Sedillo, Dana [redacted] wrote:
>
> > Hi James!
> >
> > Hope you had a nice weekend.
> >
> > Any word from Germany?
> >
> > Thank You,
> >
> > Dana Sedillo
> > Project Coordinator
> > SCS RMC

[redacted]

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From: James Cagwin - Miller Energy [redacted]
Sent: Friday, July 19, 2024 2:10 PM
To: Sedillo, Dana [redacted]
Cc: Dean, Samuel [redacted]
Subject: Re: Chiquita quotes

Hi Dana,

Please see attached partial quote. I'm waiting on the factory to get back to me on the down hole submersible pressure transmitters. The FEP cable makes them "custom" and requires me to go to them for pricing each time. I've already submitted it to the factory in Germany and have asked for a response by Monday. Hopefully they come through. I will update the quote ASAP.

Thanks and have a great weekend,

James Cagwin
Miller Energy, Inc.
505 Gordon Dr.
Exton, PA 19341
Cell: [redacted]
Office: [redacted]
Miller Energy Linecard

On Fri, Jul 19, 2024 at 11:35 AM Sedillo, Dana [redacted] wrote:

> Hi James!
>
> Happy Friday!
>
> May we get quotes for the following?
>
> - (6) Level Transducers - Wika IL-10 (rated 221F) – similar to the attached quote but with the following lengths
>   - 180

- 157
- 102
- 132
- 150
- 97

- (6) Wellhead Pressure Transmitters - Wika IS-3, P/N 52990885 – similar to the attached quote but quantity 6

- (6) Wika Cooling Towers - For Wika IS-3 sensor above, P/N 52827338

Please note Chiquita Wellheads on the quote.
Also, this is a time-sensitive project, so any push to get this going is much appreciated!

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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SCS FIELD SERVICES

Purchase Order 07-RMC00551R

DATE **7/23/24**

TO	SHIP TO	BILL TO
Miller Energy Inc dba 0223710 **Milmac Inc** MILMAC INC DBA MILLER ENERGY INC 3200 S. Clinton Ave. South Plainfield, NJ 07080 PHONE [redacted] FAX [redacted] E-MAIL [redacted]	**Sam Dean** Attn: Chiquita Wellheads 2403 Hilltown Pike Perkasie, PA 18944	**SCS Field Services** Accounts Payable 3900 Kilroy Airport Way Suite 100 Long Beach, CA 90806 PHONE [redacted] FAX [redacted] E-MAIL 07fsaccountspayable@scsengineers.com

P.O. NUMBER	ORDER DATE	BUYER	PAY TERMS	EXCESS RECV	EXCESS %	EXCESS AMOUNT
07-RMC00551R	7/23/24	Kessler Sweeney, Kim	45	N		

DESCRIPTION

quote SQ5025775

AGREEMENT TERMS

Vendor Acceptance:

BY SIGNING, VENDOR AGREES TO THE TERMS IN ARTICLES ON THE FOLLOWING PAGES OF THIS ORDER, AND ANY ADDITIONAL TERMS NOTED HEREIN.

By: _____

Date:_____

Seq	Description	Quantity		Unit Price	Net Amount	Due Date
1	Part No. 52990885 Wika Instrument	6.00	Each	[redacted]	[redacted]	1/18/2024
2	Part No. 52827338 Wika Instrument	6.00	Each	[redacted]	[redacted]	1/18/2024
3	Part No. 76216369 Wika Instrument	1.00	Each	[redacted]	[redacted]	1/18/2024
4	Part No. 76216370 Wika Instrument	2.00	Each	[redacted]	[redacted]	1/18/2024
5	Part No. 76216372 Wika Instrument	2.00	Each	[redacted]	[redacted]	1/18/2024
6	Part No. 76216374 Wika Instrument	1.00	Each	[redacted]	[redacted]	1/18/2024
7	Estimated tax and shipping	1.00	Each	[redacted]	[redacted]	1/18/2024

Total
[redacted]

GENERAL PROVISIONS OF PURCHASE ORDER

1. ACCEPTANCE – This Purchase Order represents the entire contract between Seller and SCS Engineers, hereinafter referred to as Buyer, notwithstanding any failure to sign and return the acknowledgment copy of this Purchase Order or Seller's use of any other acknowledgment form not signed by Buyer. It is expressly understood and agreed that Seller, by commencing work hereunder, accepts this Purchase Order as a binding contract and agrees to all of the terms and conditions hereof. No change, modification, revision, or addition to this Purchase Order shall be valid and binding on Buyer unless in writing and signed by an authorized representative of Buyer.

2. ASSIGNMENT – This Purchase Order shall not be assignable by Seller, voluntary or involuntarily, nor shall a subcontract be made with, or other delegation of duties made to, any other party for the furnishing of any of the completed or substantially completed items of work covered by this Purchase Order, without Buyer's prior written consent. Any such attempted assignment or delegation shall be void and ineffective.

3. BUYER'S PROPERTY – All property used by Seller but owned, furnished, or charged to or paid for by Buyer, including, but not limited to, materials, tools, dies, jigs, patterns, fixtures, equipment, and any replacement thereof, shall be the property of Buyer, subject to removal and inspection by Buyer at any time, without cost or expense to Buyer. All such property shall be identified and marked as Buyer 's property, used only for this Purchase Order, and adequately insured for Buyer's protection. Seller shall assume all liability for and maintain and repair such property, and remove or return the same to Buyer in good condition, reasonable wear and tear excepted, and except for the utilization of the property in accordance with the provisions of the Purchase Order.

4. CHANGES – Buyer shall have the right at any time to make changes in the drawings, designs, specifications, quantities, delivery schedules, methods of shipment or packaging, and place of inspection, acceptance and/or point of delivery of any items or work covered by the Purchase Order. No change shall be effective unless authorized in writing by Buyer. If such changes result in delay or an increase or decrease in expense to Seller, Seller shall notify Buyer immediately; provided, however, the Seller shall, in all events, proceed diligently to perform the work or supply the items contracted for under this Purchase Order, as so changed.

5. COMPLIANCE WITH LAWS – Seller shall comply with all applicable federal, state, and local laws, executive orders, and regulations in performing this Purchase Order. On request, Seller shall furnish Buyer with certificates of compliance concerning any or all such laws, orders, and regulations. Seller hereby agrees to defend, indemnify, and hold Buyer harmless of and from any and all costs, damages, penalties, fines, and expenses (including necessary attorney's fees) suffered or occasioned by Buyer, directly or indirectly, through any failure of Seller to comply with any such law, regulations, or order.

6. EQUAL EMPLOYMENT OPPORTUNITY – Seller hereby agrees to comply with the provisions set forth in Paragraphs (1) through (7) of Section 202 of Executive Order 11246, as amended, and the same shall be deemed incorporated herein by reference. Seller further agrees that it will not discriminate on the basis of race, creed, color, age, sex, national origin or any other basis prohibited by law.

7. HEALTH AND SAFETY – All items to be supplied and services rendered hereunder by Seller shall conform in all respects to the requirements of all applicable laws and governmental health and safety regulations, including regulations administered under the provisions of the Occupational Safety and Health Act.

8. DELIVERY – Seller shall follow the delivery schedule shown on the face hereof and shall not make deliveries later or substantially earlier than the dates shown. If any items are shipped substantially in advance of scheduled delivery dates, Buyer may return or store them at Seller's expense. If Seller does not adhere to the delivery schedule, Buyer may either agree to a revised delivery schedule or terminate this order, without liability to Buyer, for cause, as provided below. Time shall be considered of the essence in the performance of this order by Seller.

9. DRAWINGS, SPECIFICATIONS, AND TECHNICAL INFORMATION – All drawings, data, designs, inventions, and other technical information supplied by Buyer to Seller shall remain Buyer's property and shall be held in confidence by Seller. Such information shall not be reproduced, used, or disclosed to others by Seller, without Buyer's prior written consent, and shall be returned to buyer upon completion of this Purchase Order or upon demand. Any information that Seller may disclose to Buyer with respect to the design, manufacture, sale, or use of the items covered by this Purchase Order shall be deemed to have been disclosed as part of the consideration for this Purchase Order, and Seller shall not assert any claim against Buyer by reason of Buyer's use thereof. Seller agrees to defend and indemnify Buyer for all cost, liability, expense (including attorney's fees) for infringement of any patent, trademark, copyright, proprietary rights or data rights utilized by Seller.

10. INSPECTION AND ACCEPTANCE – Unless otherwise specified herein, all items will be subject to final inspection and acceptance at Buyer's plant or other designated destination, notwithstanding any prior payment or inspection and acceptance. Buyer may, at its option, hold any rejected items for Seller's instructions and at Seller's risk, or return them to Seller at Seller's expense, and Seller shall promptly reimburse Buyer for any and all damages sustained by Buyer as a result of Seller's breach of its obligations hereunder. No replacement or correction of rejected items shall be made, unless otherwise agreed and specified by Buyer. All rejects will be charged back at full billing price, plus the cost of inbound and out bound freight and handling.

11. LEGAL CONSTRUCTION – This Purchase Order shall be construed under and shall be subject to the laws of the State of Virginia.

12. LIENS – All items shall be delivered hereunder, and all property to be returned to Buyer shall be kept, at all times, free and clear of any and all liens and encumbrances whatsoever, and sell shall defend, indemnify, and hold Buyer harmless from and against all claims and liens of any and all persons or firms, based upon the furnishing of labor and/or materials in connection with the items or work ordered hereby.

13. PACKING, SHIPPING, AND INSURANCE – No charges will be allowed by Buyer for boxing, wrapping, cartage, or storage other

than those specified in this Purchase Order. Seller shall timely ship all items by secure, insured and protected transportation safeguarding against damage. Delivery will be F.O.B. destination unless otherwise specified in this Purchase Order.

14. PATENT PROTECTION – To the extent that the items covered by this Purchase Order are manufactured pursuant to designs not originated by Buyer, Seller shall indemnify and hold Buyer, its representatives, and customers harmless from and against any expense (including attorney's fees), claims, cost, loss, damage, or liability for infringement or alleged infringement of any patents, copyrights or other proprietary rights with respect to such items and their process of manufacture, and Seller hereby agrees at its own expense to defend or assist in the defense of, at Buyer's option, any action in which such infringement is alleged with respect to the manufacture, sale, or use of such items delivered hereunder. Any reports, drawings, renderings, source and object code, algorithms, routines, formulae, programming, software and other works and documents ("Works") provided to Seller by Buyer or its employees, consultants, subcontractors or agents, and all intellectual property ("IP") rights in the same, shall be owned exclusively by Buyer. Additionally this Purchase Order shall operate as an irrevocable transfer and assignment to Buyer of all right, title, and interest, including all copyrights, in and to any IP, Works, and forms of expression and communication now known or later developed, conceived or created as part of Seller's performance under this Purchase Order.

15. PAYMENT – Invoices will be paid within forty-five (45) days after receipt and acceptance of the items, completion and acceptance of the work and receipt of a correct invoice. Discount periods will be computed from either the date of delivery of the items ordered, plus three days' allowance for inspection, or the date of receipt of correct invoices prepared in accordance with the terms of Buyer's order, whichever date is later.

16. TAXES – The price includes all Federal, state, and local taxes, duties or levys of any nature. All such taxes, duties or levys shall be stated separately in this Purchase Order. Buyer shall be responsible to pay only for such taxes as are approved i the Purchase Order and separately stated in Seller's invoice, for the items and the work.

17. TERMINATION – (A) Without cause – Buyer shall have the right to terminate this Purchase Order for convenience in whole, or, from time to time, in part. In such event, and provided the items ordered are not standard commercial items, Buyer's sole and maximum liability shall be limited to payment (1) for completed and delivered items at Purchase Order price, and (2) of costs directly attributable to payments, if any, for incomplete items plus a profit thereon, not to exceed 5 percent. Buyer shall have the right to delivery of items partially fabricated and to all unused material and inventory acquired and included in Seller's claim, or to credit for the agreed value thereof. If the items ordered are standard commercial items, Buyer shall have the right to terminate the Purchase Order for convenience, in whole, or, from time to time, in part, without any obligation or liability whatsoever, except for payment of items delivered prior to such termination.

(B) With cause- If Seller Fails to make any deliver in accordance with the agreed delivery date or schedule, fails to observe or comply with any of the other instructions, terms, conditions, or warranties applicable to this Purchase Order, fails to make progress so as to endanger performance of the Purchase Order, or, in the event that Seller becomes insolvent, any proceedings are commended by or against Seller in bankruptcy or insolvency, a receiver or trustee is appointed, or an assignment for the benefit of creditors is made, Buyer may, in addition to any other right or remedy provided by this Purchase Order or by Law, terminate all of any part of this Purchase Order by notice to Seller, without any liability of Buyer to Seller on account thereof.

In the event of termination for cause, Buyer may produce or purchase, or otherwise acquire, such items or work elsewhere on such terms or in such manner as Buyer may deem appropriate, and Seller shall be liable to Buyer for any excess cost or other expenses incurred or damages suffered by Buyer.

18. SUSPENSION OF WORK – Buyer may order Seller in writing to suspend, delay, or interrupt all or any part of the work for a period not to exceed ninety (90) consecutive days. An adjustment may be made for any verifiable increase in cost of performance of the Purchase Order (excluding profit) necessarily caused suspensions beyond ninety (90) days. However, no adjustment shall be made for any suspension, delay, or interruptions to the extent that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of Seller. Also, no adjustment shall be made under this clause for any suspension, delay, or interruption for which an equitable adjustment is provided for or excluded under any other provision of this contract. No claim under this clause shall be allowed unless the claim, in an amount stated, is asserted in writing within thirty (30) days after the termination of such suspension, delay, or interruption.

19. INDEMNIFICATION AND INSURANCE – If Seller's agent, employees, or subcontractors enter upon premises occupied by or under the control of Buyer, or any of its customers or supplies, in the course of the performance of this Purchase Order, Seller shall take all necessary precautions to prevent the occurrence of any injury (including death) to any person or any damage to any property arising out of any acts or omission of Seller's agents, employees, or subcontractors, except for injury or damage due solely and directly to Buyer's negligence. Seller shall defend, indemnify, and hold Buyer harmless from and against any suits, liabilities, losses, damages, claims, causes of action, and expenses (including attorneys' fees), arising out of or connected with any act or omission with respect to this Order of Seller, its agents, employees, or subcontractors. Seller shall maintain commercial general liability, automobile liability, property damage, and workman's compensation and employer's liability insurance as will protect Buyer from any of said risks and from any claims under any applicable workman's compensation acts or as directed by Buyer. If performance under this Purchase Order includes the transportation of hazardous or toxic chemicals, materials, substances, or any other pollutants, Seller shall provide Hazardous Transporters Pollution Liability Insurance (MCS-90 or equivalent) appropriate to cover such activities in an amount not less than Ten Million Dollars ($10,000,000) combined single limit per occurrence and in the aggregate for bodily injury, property damage and remediation. Upon request of Buyer, Seller shall furnish Buyer with certificates of such insurance, which will provide that at least thirty (30) days' prior notice, in writing, shall be given to Buyer of cancellation or reduction of coverage, and will name Buyer as an additional insured on such policies.

20. TITLE AND RISK OF LOSS – Except as otherwise expressly provided herein, title to and risk of loss or damage to all items

shipped by Seller to Buyer shall pass to Buyer upon acceptance at the destination point designated on the face of this order. Cost of all return shipments, including risk of loss therefore, for whatever reason returned, shall be borne by Seller.

21. WAIVER OF TERMS AND CONDITIONS – The failure of Buyer, in any one or more instances, to insist upon performance of any of the terms or conditions of this order, or to exercise any right or privilege contained in this order, or the waiver of any breach of the terms or conditions of this order, shall not be construed as thereafter waiving any such terms, conditions, or privileges, and the same shall continue and remain in force and effect as if no waiver had occurred.

22. WARRANTIES – SELLER WARRANTS THAT THE ITEMS AND WORK DESCRIBED HEREIN SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS, SHALL STRICTLY CONFORM TO APPLICABLE SPECIFICATIONS, DRAWINGS, AND APPROVED SAMPLES, IF ANY, INCLUDING PERFORMANCE SPECIFICATIONS, AND SHALL BE OF MERCHANTABLE QUALITY AND FIT FOR THE PURPOSE FOR WHICH PURCHASED AND, IF OF SELLER'S DESIGN, SHALL BE FREE FROM DESIGN DEFECTS. These warranties shall be, in addition to any other warranties, express, implied, or statutory, applicable to this order. All warranties shall run to Buyer, its customers, and subsequent users or owners of the items or the end products of which they are a part. Seller agrees, at its expense, to defend or assist in the defense of any action, Buyer' option, against Buyer, its customers, or subsequent users, insofar as such action is based upon the breach or alleged breach of any of the foregoing warranties. Seller hereby agrees to defend, indemnify, and hold Buyer, its customers, and subsequent users or owners harmless from and against all liabilities, loss, costs, damages, and expenses, including reasonable attorney's fees, resulting from any breach of the foregoing warranties.

23. GOVERNMENT CONTRACT – In the event that this Purchase Order bears a governmental contract number on the designation "Government" on the face hereof, this order and the contract resulting therefrom shall be subject to all applicable provisions of, and shall be deemed to contain and have incorporated herein, all clauses and provisions required by the terms of the government contract under which, or for which, this Purchase Order is issued and by any applicable federal laws and regulations.

24. INDEPENDENT CONTRACTOR – All work to be performed by Seller hereunder shall be performed as an independent contractor and not as an employee or agent of Buyer, and entirely at the risk of Seller.

25. EVENTS BEYOND CONTROL OF PARTIES – Neither party shall be liable to the other hereunder for any delay or failure of performance due to fire, earthquake, flood, explosion, accident, dispute with or inability to secure workmen, lack of material, lack of facilities, Act of God, voluntary or involuntary compliance with any valid or invalid law, order, regulation, request or recommendation of any governmental agency or authority, lack of transportation facilities, or any other cause beyond its control and without its fault or negligence, provided, however, that when Seller has reason to believe that its performance hereunder as scheduled will thereby be affected written notice setting forth the cause thereof and the extent of the delay shall be given immediately to Buyer.

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5025775

PAGE 1

DATE 7/22/2024

PROJECT REFERENCE Chiquita Wellheads
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 6 WEEKS -7 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Dana Sedillo
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
1	6	Wika Instrument Corp. Part No. 52990885 IS-3 -100...100 inWC; 1/4" NPT 4-20mA 2-wire @ 11...30 V DC, Accuracy: 0.25% of span Material of Wetted Parts: stainless steel Adjustability: Zero/span adjustable Field case, conduit 1/2 NPT female with spring clip terminal UB=1, 0V=2 permitted media temperature: -20...+80°C Approvals: ATEX/IECEx/FM/CSA Additional certifications: without Specifications according to data sheet: PE 81.58 Product Catalog 	[redacted]	[redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
2	6	Wika Instrument Corp. Part No. 52827338 910.32.100 Miniature Cooling Adaptor 1/4 F x 1/4 M Product Catalog 	[redacted]	[redacted]

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5025775

DATE 7/22/2024

PROJECT REFERENCE Chiquita Wellheads
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 6 WEEKS -7 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Dana Sedillo
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
3	1	Wika Instrument Corp. Part No. 76216369 Intrinsically safe Level Probe Model IL-10 Submersible Liquid Level Transmitter Specifications according to data sheet: PE 81.23 Power Supply: DC 10 ... 30 V Output signal: 4 ... 20 mA, 2-wire Ingress Protection: IP 68 Pressure Range: 0 ... 50 psi Process Connection: G 1/2 B Special Design Features: Hastelloy with FEP Cable Accuracy: 0.5% of span Cable Length: 60 m Approvals: I M1, II 1G, II 1/2G, II 2G, II 1D per ATEX/IECEx incl. CSA **This item is made to order, therefore it is non-returnable and non-cancellable. *** THIS UNIT TO COVER THE 180 FT***	[redacted]	[redacted]

Product Catalog

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5025775

PAGE 3

DATE 7/22/2024

PROJECT REFERENCE Chiquita Wellheads
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 6 WEEKS -7 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Dana Sedillo
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
4	2	Wika Instrument Corp. Part No. 76216370 Intrinsically safe Level Probe Model IL-10 Submersible Liquid Level Transmitter Specifications according to data sheet: PE 81.23 Power Supply: DC 10 ... 30 V Output signal: 4 ... 20 mA, 2-wire Ingress Protection: IP 68 Pressure Range: 0 ... 50 psi Process Connection: G 1/2 B Special Design Features: Hastelloy with FEP Cable Accuracy: 0.5% of span Cable Length: 50 m Approvals: I M1, II 1G, II 1/2G, II 2G, II 1D per ATEX/IECEx incl. CSA **This item is made to order, therefore it is non-returnable and non-cancellable. *** THIS UNIT TO COVER THE 157 AND 150 FT***	[redacted]	[redacted]

Product Catalog

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5025775

DATE 7/22/2024

PROJECT REFERENCE Chiquita Wellheads
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 6 WEEKS -7 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Dana Sedillo
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
5	2	Wika Instrument Corp. Part No. 76216372 Intrinsically safe Level Probe Model IL-10 Submersible Liquid Level Transmitter Specifications according to data sheet: PE 81.23 Power Supply: DC 10 ... 30 V Output signal: 4 ... 20 mA, 2-wire Ingress Protection: IP 68 Pressure Range: 0 ... 50 psi Process Connection: G 1/2 B Special Design Features: Hastelloy with FEP Cable Accuracy: 0.5% of span Cable Length: 40 m Approvals: I M1, II 1G, II 1/2G, II 2G, II 1D per ATEX/IECEx incl. CSA **This item is made to order, therefore it is non-returnable and non-cancellable. *** THIS UNIT TO COVER THE 132 AND 102 FT*** Product Catalog 	[redacted]	[redacted]

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5025775

DATE 7/22/2024

PROJECT REFERENCE Chiquita Wellheads
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 6 WEEKS -7 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Dana Sedillo
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
6	1	Wika Instrument Corp. Part No. 76216374 Intrinsically safe Level Probe Model IL-10 Submersible Liquid Level Transmitter Specifications according to data sheet: PE 81.23 Power Supply: DC 10 ... 30 V Output signal: 4 ... 20 mA, 2-wire Ingress Protection: IP 68 Pressure Range: 0 ... 50 psi Process Connection: G 1/2 B Special Design Features: Hastelloy with FEP Cable Accuracy: 0.5% of span Cable Length: 30 m Approvals: I M1, II 1G, II 1/2G, II 2G, II 1D per ATEX/IECEx incl. CSA **This item is made to order, therefore it is non-returnable and non-cancellable. *** THIS UNIT TO COVER THE 97 FT***	[redacted]	[redacted]

Product Catalog

Total: [redacted]

General Terms:
1.) This proposal is subject to Miller Energy Standard Terms and Conditions.
2.) Product images are for reference purposes only.
3.) 3.75% Service Fee applied to all credit card payments.

Please address your Order as follows:

Miller Energy Inc.
505 Gordon Drive
Exton, PA 19341-1252

ATTACHMENT 3 – COMPONENT 4 - IIOT DEVICE

Dean, Samuel

From: Sedillo, Dana
Sent: Tuesday, July 2, 2024 2:19 PM
To: Christine Foster
Cc: Dean, Samuel; John Dezzi
Subject: RE: Ranger Quote
Attachments: SCS Field Services-Sedillo-SF-062824-01TFJD.doc.pdf; 07-RMC00544 NETS.pdf

Hi Tina,

See the attached PO 07-RMC00544
Please provide tracking when available.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

Driven by Client Success
www.scsengineers.com

From: Christine Foster [redacted]
Sent: Friday, June 28, 2024 10:42 AM
To: Sedillo, Dana [redacted]
Cc: Dean, Samuel [redacted] John Dezzi [redacted]
Subject: RE: Ranger Quote

Dana,
Attached above is the quote for your review.

Thank You,
Tina Foster

Tina Foster
Inside Sales
North East TECHNICAL SALES, INC.
50th ANNIVERSARY
Txdqw|#qgxvwulqj#lqg
frqwurg#vroxwrqv#ru#ryhu#83#hduv$#
www.netechsales.com | Follow us on LinkedIn
171 Ruth Road, Harleysville PA 19438

Phone: [redacted]
Direct: [redacted]
E-Mail: [redacted]
www.netechsales.com

From: Sedillo, Dana [redacted]
Sent: Friday, June 28, 2024 1:25 PM
To: Christine Foster [redacted]
Cc: Dean, Samuel [redacted] [redacted]
Subject: RE: Quote Request - Dean

Hi Tina,
May we please have a quote for the following?

- (6) RANGER-4DPak-Int-Modbus-NoSIM-N-N-N

Please note Chiquita Landfill on the quote.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

Driven by Client Success
www.scsengineers.com

SCS FIELD SERVICES

Purchase Order 07-RMC00544

DATE 7/1/24

TO	SHIP TO	BILL TO
North East Technical Sales, Inc. 0242041 NORTH EAST TECHNICAL SALES INC 171 Ruth Road Harleysville, PA 19438 PHONE [redacted] FAX [redacted] E-MAIL [redacted]	**Sam Dean** Attn: Chiquita 2403 Hilltown Pike Perkasie, PA 18944	**SCS Field Services** Accounts Payable 3900 Kilroy Airport Way Suite 100 Long Beach, CA 90806 PHONE [redacted] FAX [redacted] E-MAIL 07fsaccountspayable@scsengineers.com

P.O. NUMBER	ORDER DATE	BUYER	PAY TERMS	EXCESS RECV	EXCESS %	EXCESS AMOUNT
07-RMC00544	6/28/24	Sedillo, Dana	45	N		

DESCRIPTION

Quote 8396

AGREEMENT TERMS

Vendor Acceptance:

BY SIGNING, VENDOR AGREES TO THE TERMS IN ARTICLES ON THE FOLLOWING PAGES OF THIS ORDER, AND ANY ADDITIONAL TERMS NOTED HEREIN.

By: _____

Date:_____

Seq	Description	Quantity		Unit Price	Net Amount	Due Date
1	Ranger-STD-4DPak-IntAnt-Modbus_NoSIM-N-N-N	6.00	Each	[redacted]	[redacted]	10/18/2023
2	ESTIMATED Tax and Shipping	1.00	Each	[redacted]	[redacted]	10/18/2023

Total
[redacted]

GENERAL PROVISIONS OF PURCHASE ORDER

1. ACCEPTANCE – This Purchase Order represents the entire contract between Seller and SCS Engineers, hereinafter referred to as Buyer, notwithstanding any failure to sign and return the acknowledgement copy of this Purchase Order or Seller's use of any other acknowledgement form not signed by Buyer. It is expressly understood and agreed that Seller, by commencing work hereunder, accepts this Purchase Order as a binding contract and agrees to all of the terms and conditions hereof. No change, modification, revision, or addition to this Purchase Order shall be valid and binding on Buyer unless in writing and signed by an authorized representative of Buyer.

2. ASSIGNMENT – This Purchase Order shall not be assignable by Seller, voluntarily or involuntarily, nor shall a subcontract be made with, or other delegation of duties made to, any other party for the furnishing of any of the completed or substantially completed items of work covered by this Purchase Order, without Buyer's prior written consent. Any such attempted assignment or delegation shall be void and ineffective.

3. BUYER'S PROPERTY – All property used by Seller but owned, furnished, or charged to or paid for by Buyer, including, but not limited to, materials, tools, dies, jigs, patterns, fixtures, equipment, and any replacement thereof, shall be the property of Buyer, subject to removal and inspection by Buyer at any time, without cost or expense to Buyer. All such property shall be identified and marked as Buyer's property, used only for this Purchase Order, and adequately insured for Buyer's protection. Seller shall assume all liability for and maintain and repair such property, and remove or return the same to Buyer in good condition, reasonable wear and tear excepted, and except for the utilization of the property in accordance with the provisions of this Purchase Order.

4. CHANGES – Buyer shall have the right at any time to make changes in the drawings, designs, specifications, quantities, delivery schedules, methods of shipment or packaging, and place of inspection, acceptance and/or point of delivery of any items or work covered by this Purchase Order. No change shall be effective unless authorized in writing by Buyer. If such changes result in delay or an increase or decrease in expense to Seller, Seller shall notify Buyer immediately and an equitable adjustment shall be negotiated; provided, however, the Seller shall, in all events, proceed diligently to perform the work or supply the items contracted for under this Purchase Order, as so changed.

5. COMPLIANCE WITH LAWS – Seller shall comply with all applicable federal, state, and local laws, executive orders, and regulations in performing this Purchase Order. On request, Seller shall furnish Buyer with certificates of compliance concerning any or all such laws, orders, and regulations. Seller hereby agrees to defend, indemnify, and hold Buyer harmless of and from any and all costs, damages, penalties, fines, and expenses (including reasonable attorneys' fees) suffered or occasioned by Buyer, directly or indirectly, through any failure of Seller to comply with any such law, regulations, or order.

6. EQUAL EMPLOYMENT OPPORTUNITY – **This Buyer and Seller shall abide by the requirements of** 41 CFR 60-1.4(a), 60-300.5(a) **and** 60-741.5(a)**. These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status.**

7. HEALTH AND SAFETY – All items to be supplied and services to be rendered hereunder by Seller shall conform in all respects to the requirements of all applicable insurance and governmental health and safety regulations, including regulations administered under the provisions of the Occupational Safety and Health Act.

8. DELIVERY – Seller shall follow the delivery schedule shown on the face hereof and shall not make deliveries later or substantially earlier than the dates shown. If any items are shipped substantially in advance of scheduled delivery dates, Buyer may return or store them at Seller's expense. If Seller does not adhere to the delivery schedule, Buyer may either agree to a revised delivery schedule or terminate this Purchase Order, without liability to Buyer, for cause, as provided below. Time shall be considered of the essence in the performance of this Purchase Order by Seller.

9. DRAWINGS, SPECIFICATIONS, AND TECHNICAL INFORMATION – All drawings, data, designs, inventions, and other technical information supplied by Buyer to Seller shall remain Buyer's property and shall be held in confidence by Seller. Such information shall not be reproduced, used, or disclosed to others by Seller, without Buyer's prior written consent, and shall be returned to Buyer upon completion of this Purchase Order or upon demand. Any information that Seller may disclose to Buyer with respect to the design, manufacture, sale, or use of the items covered by this Purchase Order shall be deemed to have been disclosed as part of the consideration for this Purchase Order, and Seller shall not assert any claim against Buyer by reason of Buyer's use thereof. Buyer does not grant any indemnity to Seller hereunder for infringement of any patent, trademark, copyright, or data rights utilized by Seller, whether provided by Buyer or any third party.

10. INSPECTION AND ACCEPTANCE – Unless otherwise specified herein, all items will be subject to final inspection and acceptance at Buyer's plant or other designated destination, notwithstanding any prior payment or inspection and acceptance. Buyer may, at its option, hold any rejected items for Seller's instructions and at Seller's risk, or return them to Seller at Seller's expense, and Seller shall promptly reimburse Buyer for any and all damages sustained by Buyer as a result of Seller's breach of warranty or any of its other obligations hereunder. No replacement or correction of rejected items shall be made, unless otherwise specified by Buyer on Buyer's return material order. All rejects will be charged back at full billing price, plus the cost of inbound and out bound freight and handling.

11. LEGAL CONSTRUCTION – This Purchase Order shall be construed under and shall be subject to the laws of the Commonwealth of Virginia.

12. LIENS – All items shall be delivered hereunder, and all property to be returned to Buyer shall be kept, at all times, free and clear of any and all liens and encumbrances whatsoever, and Seller shall defend, indemnify, and hold Buyer harmless from and against all claims and liens of any and all persons or firms, based upon the furnishing of labor and/or materials in connection with the items or work ordered hereby.

13. PACKING, SHIPPING, AND INSURANCE – No charges will be allowed by Buyer for boxing, wrapping, cartage, or storage other than those specified in this Purchase Order. Seller shall pack or otherwise prepare all items for shipment so as to secure the lowest transportation and insurance rates consistent with timely delivery, meeting carrier's requirements, and safeguarding against damage from weather, transportation,

and storage. Delivery will be F.O.B. destination unless otherwise specified in this Purchase Order.

14. INTELLECTUAL PROPERTY PROTECTION – To the extent that the items covered by this Purchase Order are manufactured pursuant to designs not originated by Buyer, Seller shall indemnify and hold Buyer, its representatives and customers, harmless from and against any expense (including reasonable attorneys' fees), claims, cost, loss, damage, or liability for infringement or alleged infringement of any patents, copyrights, or other proprietary rights with respect to such items and their process of manufacture, and Seller hereby agrees at its own expense to defend or assist in the defense of, at Buyer's option, any action in which such infringement is alleged with respect to the manufacture, sale, or use of such items delivered hereunder. Any reports, drawings, renderings, source and object code, algorithms, routines, formulae, programming, software and other works and documents ("Works") provided to Seller by Buyer or its employees, consultants, subcontractors or agents, and all intellectual property ("IP") rights in the same, shall be owned exclusively by Buyer. Additionally, this Purchase Order shall operate as an irrevocable transfer and assignment to Buyer of all right, title, and interest, including all copyrights, in and to any IP, Works, and forms of expression and communication now known or later developed, conceived or created as part of Seller's performance under this Purchase Order.

15. PAYMENT – Invoices will be paid according to discount terms, or, if no discount is offered, within forty-five (45) days after receipt and acceptance of the items, completion and acceptance of the work, and receipt of a correct invoice. Discount periods will be computed from either the date of delivery of the items ordered, plus three days' allowance for inspection, or the date of receipt of correct invoices prepared in accordance with the terms of this Purchase Order, whichever date is later.

16. TAXES – The price includes all Federal, state, and local taxes, duties or levies of any nature. All such taxes, duties or levies shall be stated separately in this Purchase Order. Buyer shall be responsible to pay only for such taxes as are approved in the Purchase Order and separately stated in Seller's invoice.

17. TERMINATION – (A) Without cause – Buyer shall have the right to terminate this Purchase Order for convenience in whole, or, from time to time, in part. In such event, and provided the items ordered are not standard commercial items, Buyer's sole and maximum liability shall be limited to payment (1) for completed and delivered items at Purchase Order price, and (2) of costs directly attributable to incomplete items, plus a profit thereon, not to exceed eight (8) percent. Buyer shall have the right to delivery of items partially fabricated and to all unused material and inventory acquired and included in Seller's claim, or to credit for the agreed value thereof. If the items ordered are standard commercial items, Buyer shall have the right to terminate the Purchase Order for convenience, in whole, or, from time to time, in part, without any obligation or liability whatsoever, except for payment of items delivered prior to such termination.

(B) With cause – If Seller fails to make any deliver in accordance with the agreed delivery date or schedule, fails to observe or comply with any of the other instructions, terms, conditions, or warranties applicable to this Purchase Order, fails to make progress so as to endanger performance of the Purchase Order, or, in the event that Seller becomes insolvent, any proceedings are commended by or against Seller in bankruptcy or insolvency, a receiver or trustee is appointed, or an assignment for the benefit of creditors is made, Buyer may, in addition to any other right or remedy provided by this Purchase Order or by Law, terminate all of any part of this Purchase Order by written notice to Seller, without any liability of Buyer to Seller on account thereof.

In the event of termination for cause, Buyer may produce or purchase, or otherwise acquire, such items or work elsewhere on such terms or in such manner as Buyer may deem appropriate, and Seller shall be liable to Buyer for any excess cost or other expenses incurred or damages suffered by Buyer.

18. SUSPENSION OF WORK – Buyer may order Seller in writing to suspend, delay, or interrupt all or any part of the work for a period not to exceed ninety (90) consecutive days. An equitable adjustment shall be made for any verifiable increase in cost of performance of the Purchase Order (excluding profit) necessarily caused by suspensions beyond ninety (90) days. An equitable adjustment shall also be made in any verifiable extension to the delivery or performance dates necessarily caused by suspensions beyond ninety (90) days. However, no adjustment shall be made for any suspension, delay, or interruptions to the extent that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of Seller. Also, no adjustment shall be made under this clause for any suspension, delay, or interruption for which an equitable adjustment is provided for or excluded under any other provision of this Purchase Order. No claim under this clause shall be allowed unless the claim, in an amount stated, is asserted in writing within thirty (30) days after the termination of such suspension, delay, or interruption.

19. INDEMNIFICATION AND INSURANCE – If Seller's agents, employees, or subcontractors enter upon premises occupied by or under the control of Buyer, or any of its customers or suppliers, in the course of the performance of this Purchase Order, Seller shall take all necessary precautions to prevent the occurrence of any injury (including death) to any person or any damage to any property arising out of any acts or omissions of Seller, or any of Seller's agents, employees, or subcontractors, except for injury or damage due solely and directly to Buyer's negligence. Seller shall defend, indemnify, and hold Buyer harmless from and against any suits, liabilities, losses, damages, claims, causes of action, and expenses (including reasonable attorneys' fees), arising out of or connected with any act or omission with respect to this Purchase Order of Seller, its agents, employees, or subcontractors. Seller shall maintain such commercial general liability, automobile liability, property damage, workman's compensation, and employer's liability insurance as will protect Buyer from any of said risks and from any claims under any applicable workman's compensation acts or as directed by Buyer. If performance under this Purchase Order includes the transportation of hazardous or toxic chemicals, materials, substances, or any other pollutants, Seller shall provide Hazardous Transporters Pollution Liability Insurance (MCS-90 or equivalent) appropriate to cover such activities in an amount not less than Ten Million Dollars ($10,000,000) combined single limit per occurrence and in the aggregate for bodily injury, property damage and remediation. Upon request of Buyer, Seller shall furnish Buyer with certificates of such insurance, which will provide that at least thirty (30) days' prior notice, in writing, shall be given to Buyer of cancellation or reduction of coverage, and will name Buyer as an additional insured on such policies.

20. TITLE AND RISK OF LOSS – Except as otherwise expressly provided herein, title to and risk of loss or damage to all items shipped by Seller to Buyer shall pass to Buyer upon acceptance at the destination point designated on the face of this Purchase Order. Cost of all return shipments, including risk of loss therefor, for whatever reason returned, shall be borne by Seller, with title and risk of loss deemed to have

remained with Seller and never having passed to Buyer.

21. WAIVER OF TERMS AND CONDITIONS – The failure of Buyer, in any one or more instances, to insist upon performance of any of the terms or conditions of this Purchase Order, or to exercise any right or privilege contained in this Purchase Order, or the waiver of any breach of the terms or conditions of this Purchase Order, shall not be construed as thereafter waiving any such terms, conditions, or privileges, and the same shall continue and remain in force and effect as if no waiver had occurred.

22. WARRANTIES – SELLER WARRANTS THAT THE ITEMS AND WORK DESCRIBED HEREIN SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS, SHALL STRICTLY CONFORM TO APPLICABLE SPECIFICATIONS, DRAWINGS, AND APPROVED SAMPLES, IF ANY, INCLUDING PERFORMANCE SPECIFICATIONS, AND SHALL BE OF MERCHANTABLE QUALITY AND FIT FOR THE PURPOSE FOR WHICH PURCHASED AND, IF OF SELLER'S DESIGN, SHALL BE FREE FROM DESIGN DEFECTS. These warranties shall be in addition to any other warranties, express, implied, or statutory, applicable to this Purchase Order. All warranties shall run to Buyer, its customers, and subsequent users or owners of the items or the end products of which they are a part. Seller agrees, at its expense, to defend or assist in the defense of any action, at Buyer' option, against Buyer, its customers, or subsequent users, insofar as such action is based upon the breach or alleged breach of any of the foregoing warranties. Seller hereby agrees to defend, indemnify, and hold Buyer, its customers, and subsequent users or owners harmless from and against all liabilities, loss, costs, damages, and expenses, including reasonable attorneys' fees, resulting from any breach of the foregoing warranties. Notice of any breach of warranty shall be deemed sufficient if given to Seller within ninety (90) days after discovery thereof.

23. GOVERNMENT CONTRACT – In the event that this Purchase Order bears a governmental contract number on the designation "Government" on the face hereof, this order and the contract resulting therefrom shall be subject to all applicable provisions of, and shall be deemed to contain and have incorporated herein, all clauses and provisions required by the terms of the government contract under which, or for which, this Purchase Order is issued and by any applicable federal laws and regulations.

24. INDEPENDENT CONTRACTOR – All work to be performed by Seller hereunder shall be performed as an independent contractor and not as an employee or agent of Buyer, and entirely at the risk of Seller.

25. EVENTS BEYOND CONTROL OF PARTIES – Neither party shall be liable to the other hereunder for any delay or failure of performance due to fire, earthquake, flood, explosion, accident, dispute with or inability to secure workmen, lack of material, lack of facilities, Act of God, voluntary or involuntary compliance with any valid or invalid law, order, regulation, request or recommendation of any governmental agency or authority, lack of transportation facilities, epidemic, pandemic, quarantine, or any other cause beyond its control and without its fault or negligence, provided, however, that when Seller has reason to believe that its performance hereunder as scheduled will thereby be affected, written notice setting forth the cause thereof and the extent of the delay shall be given immediately to Buyer.

North East
TECHNICAL SALES, INC.

Scs Field Services, Inc.
2403 Hilltown Pike
Perkasie, PA 18944

Quotation #: 8396
Quotation Name: **Chiquita Landfill**
Date: June 28, 2024

Attn: Dana Sedillo
Email: [redacted]
Phone: [redacted]

North East Technical Sales, Inc. is pleased to submit the following quotation for your consideration:

Item	Qty.	Description	Unit Price	Ext. Price
1	6	**RANGER-4DPak-Int-Modbus-NoSIM-N-N-N** RANGER LTE M1 Transmitter - Round housing with ½" NPT input, 4 D Cell Pack, Internal LTE & GPS, Expansion Module with RS485 Modbus Serial port, No SIM Card. No SignalFire Cloud. User provides LTE CAT M1 SIM Card	[redacted]	[redacted]

Note: This quotation is for equipment only, service or installation can be quoted separately.

Please address purchase orders to: **North East Technical Sales**
171 Ruth Road
Harleysville, PA 19438

Please email or fax purchase order to North East Technical Sales for processing:

Email: [redacted]
Fax: [redacted]

Delivery: 2-4 weeks
Validity: 30 Days
Terms: NET 30
Credit Card: Add: 2.5% Fee for Credit Card Payments

FOB: Origin
Freight: Prepay and add
Ship Via: ground

Thank you for your interest in our products. If you have any questions or comments, please do not hesitate to contact me. We look forward to working with you and earning your business.

Quote Terms and Conditions

QUOTE CONDITIONS: This quote constitutes an offer by North East Technical Sales, Inc. to the buying party named on page 1 of this quote. This is for the sale of the products itemized above. You may accept this offer by providing North East Technical Sales, Inc. with an official purchase order citing the quotation number above or other written confirmation citing the quotation number above.

North East Technical Sales, Inc. has done their best to understand the application based on information provided by the buying party. Our proposal is accurate only based on the information provided by the buying party. The buying party is obligated to ensure that the equipment is installed and utilized per the specifications of the equipment for the application. North East Technical Sales will not be held liable for any bodily injuries, equipment damage, which occurs as a result of misuse of the equipment per the specifications of the manufacturer.

TERMS: If you have not accepted this quote within 30 days (can adjust as needed) of the date of this quote, this quote will expire and will be null and void.

PAYMENT: Payment terms for this quote are as set out in the “Payment” section of this quote or as agreed separately between you and North East Technical Sales, Inc.

GENERAL TERMS: All purchases of products and/or services are expressly and without limitation subject to the manufacturer’s terms & conditions of sale. Acceptance of North East Technical’s offer through one of the following methods shall constitute a contract of sale (“Contract”).

1. Buyer's issuance of a purchase order document against North East Technical’s offer or quotation.
2. North East Technical’s acknowledgement of the Buyer's order

DELIVERY: Delivery dates in respect of the products will be set by North East Technical Sales, Inc. upon receipt from the buyer of an official purchase order or other written confirmation accepting of this quote. North East Technical makes no guarantee in respect of delivery dates in respect of this quote and such dates are subject to change.
Shipping: All quotes are FOB Shipping Point unless otherwise noted.

WARRANTY: All Products are subject to the warranty given by the manufacturer of the Products.

ATTACHMENT 4 – COMPONENT 5 - REMOTE INPUT CARD

Dean, Samuel

From: Patrick Presto [redacted]
Sent: Saturday, June 29, 2024 7:32 AM
To: Sedillo, Dana
Cc: Shannon Wood; Dean, Samuel
Subject: RE: Horner Quote Request
Attachments: SO_5051768.pdf

Good morning Dana,

I hope your weekend is off to a relaxing start. I'll send you the tracking information as soon as I receive it.

Enjoy your weekend!

Patrick Presto
Stokes Electrical Supply Co., Inc.
Sales Manager
Mobile [redacted]
Locations: Easton, PA / Emmaus, PA / Mesa, AZ

From: Sedillo, Dana [redacted]
Sent: Friday, June 28, 2024 3:41 PM
To: Patrick Presto [redacted]
Cc: Shannon Wood [redacted] Dean, Samuel [redacted]
Subject: RE: Horner Quote Request

Hi Patrick!

YES! Those are the part #'s. 😊

Please use PO 07-RMC1006

Shipping address :
Sam Dean
Attn Chiquita LF
2403 Hilltown Pike
Perkasie, PA 18944

When you can, please provide lead time and tracking info.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

Driven by Client Success
www.scsengineers.com

From: Patrick Presto [redacted]
Sent: Friday, June 28, 2024 11:25 AM
To: Sedillo, Dana [redacted]
Cc: Shannon Wood [redacted] Dean, Samuel [redacted]
Subject: RE: Horner Quote Request

Dana,

I believe these are the part numbers you're requesting but I will need you to verify if they're correct.

Thank you and enjoy your weekend!

Patrick Presto
Stokes Electrical Supply Co., Inc.
Sales Manager
Mobile [redacted]

Stokes Electrical Supply Company
Stokes ELECTRICAL SUPPLY COMPANY
Locations: Easton, PA / Emmaus, PA / Mesa, AZ

From: Patrick Presto
Sent: Friday, June 28, 2024 2:14 PM
To: 'Sedillo, Dana' [redacted]
Cc: Shannon Wood [redacted] Dean, Samuel [redacted]
Subject: RE: Horner Quote Request

Good afternoon Dana,

Unfortunately, we'll need the Horner part numbers in order to quote these items. Do you have them?

Patrick Presto
Stokes Electrical Supply Co., Inc.
Sales Manager
Mobile [redacted]

Stokes Electrical Supply Company
Stokes ELECTRICAL SUPPLY COMPANY
Locations: Easton, PA / Emmaus, PA / Mesa, AZ

From: Sedillo, Dana [redacted]
Sent: Friday, June 28, 2024 1:22 PM
To: Patrick Presto [redacted]
Cc: Shannon Wood [redacted] Dean, Samuel [redacted]
Subject: Horner Quote Request

Hi Patrick,

Happy Friday!

We would like to request a quote for the following Horner components:

- (6) SmartMod - RS485 4 channel thermocouple input module
- (6) SmartMod - RS485 4 channel 4-channel analog input module

This is for a rush job so please let me know if these are in stock and if it's possible to ship early next week.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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www.scsengineers.com

Stokes Electrical Supply Co., Inc.
3401 Northwood Avenue
Easton, PA 18045
Phone: [redacted]
Fax: [redacted]

SALES QUOTATION

ORDER:	5051768
DATE:	06/28/2024
EXPIRES:	07/28/2024
ACCOUNT:	200177
CONTACT:	Dana Sedillo
PHONE:	[redacted]
PAGE:	1 of 1

SOLD TO	SHIP TO
Stearns,Conrad & Schmidt Engineers,Inc. 3900 Kilroy Airport Way, Suite 100 Long Beach , CA 90806	**Stearns,Conrad & Schmidt Engineers,Inc.** 3900 Kilroy Airport Way, Suite 100 Long Beach , CA 90806 CONTACT: ([redacted]) [redacted]

CUSTOMER PO	TERMS	ENTERED BY
Horner	Net 30 Days	Patrick Presto

L	ITEMS	DESCRIPTION	QTY	NET PRICE	EXT PRICE
1	 HOR HE359THM100	4 channel Thermocouple Inputs (Types J,K,R,S,B,E,T,N) or millivolt inputs (+/-1000mV, max). 0.1 degrees Celsius resolution, 2000vac isolation (ch-RS485 & ch-power)	6 EA	[redacted]	[redacted]
	COMMENT:	factory stock			
2	 HOR HE359ADC120	4 channel Analog Inputs, Current (4-20mA), 1uA resolution, 2000vac isolation (ch-RS485 & ch-power)	6 EA	[redacted]	[redacted]
	COMMENT:	(7) factory stock			

We sincerely appreciate the opportunity to quote on your requirements and look forward to receiving your order. This quotation is our interpretation of your requirements. Please advise of any changes necessary. Thank you!

Please email your orders to orders@stokeselectric.com

There is no tax calculated on this quote

Subtotal:	[redacted]
Freight:	[redacted]
Sales Tax:	[redacted]
Total:	[redacted]

X_____**Date**_____

October 11, 2024

Mr. Steve Cassulo
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, CA 91384

Subject: Response to South Coast Air Quality Management Stipulated Order for Abatement in Case No. 6177-4 Condition 66(a)(iii)
Chiquita Canyon Landfill, Castaic, California

Dear Mr. Cassulo,

On behalf of Chiquita Canyon, LLC (Chiquita), SCS Engineers (SCS) hereby submits this letter in response to Condition No. 66(a)(iii) in the Stipulated Order for Abatement in Case No. 6177-4 (SOFA) with the South Coast Air Quality Management District (South Coast AQMD). Condition No. 66(a)(iii) states:

> *iii. Respondent shall contact at least three reputable vendors/manufacturers/distributors for each of the systems, devices, and components that have identified issues/concerns as described by Condition No. 66(a)(ii) requesting and facilitating in obtaining proposed solutions and recommendations for each of the identified issues/concerns. Documented correspondence of the results of this communication shall be submitted to South Coast AQMD [Baitong Chen, Air Quality Engineer, (*bchen@aqmd.gov*); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)] by no later than, October 11, 2024.*

Based on the Reaction Committee's recommendations and issues identified in the April 19, 2024 submission to the South Coast AQMD titled "LFG Wellfield Automated Remote Monitoring Plan", Chiquita's September 17, 2024 submission to the South Coast AQMD titled "Response to the South Coast Air Quality Management Stipulated Order for Abatement in Case No. 6177-4 Condition 66(a)(ii)", and upon further analysis, SCS implemented the initial pilot program for the six (6) wells to evaluate the feasibility of the remote monitoring system.

The original design for the six (6) pilot remotely monitored landfill gas wells to meet the original SOFA requirements included the following key system components:

- Component 1: three (3) down-well thermocouples to measure temperature at varying depths;
- Component 2: one (1) down-well level transducer to measure liquid level within the well;
- Component 3: one (1) top-mounted pressure transducer to measure vacuum applied to the wellhead;
- Component 4: one (1) industrial cellular IIoT device to gather data from the sensors and transmit it to SCS' cloud-based Supervisory Control and Data Acquisition system for remote monitoring, alarming, and reporting;
- Component 5: two (2) remote input cards to gather data from the sensors and transmit it to the IIoT device; and

- Component 6: one (1) solar power system to source 12-VDC for the sensors and IIoT device

We contacted reputable vendors/manufacturers/distributors for each of the systems, devices, and components that have identified issues/concerns, in accordance with Condition No. 66(a)(ii). We sent them a request for quotation that included specifications for them to evaluate and either present a compatible component or propose alternatives if they could not meet the requested specifications. We requested a quantity of 240 units for each item to evaluate the equipment lead times for the large potential quantity for the reaction area wells. Documentation of our correspondence is provided in the attachments, along with received quotations and/or responses from the vendors/manufacturers/distributors. See Attachment A (Component 1); Attachment B (Component 2); Attachment C (Component 3); Attachment D (Component 4); Attachment E (Component 5); Attachment F (Component 6).

Please note that some vendors/manufacturers/distributors did not respond or were unable to meet the specifications.

If you have any questions regarding the information contained in this submittal, please contact the undersigned.

Sincerely,

Sam Dean
Senior Project Manager, SCS RMC
SCS Engineers

David Hostetter
Business Manager, SCS RMC
SCS Engineers

CC:
Nicole Ward, Chiquita Canyon, LLC
Amanda Froman, Chiquita Canyon, LLC
Baitong Chen, South Coast AQMD
Nathaniel Dickel, South Coast AQMD
Christina Ojeda, South Coast AQMD

ATTACHMENTS

ATTACHMENT A (COMPONENT #1) – DOWN-WELL THERMOCOUPLES

- Requests for Quotations and Vendor/Manufacturer/Distributor Quotes and Responses
    - Chicago Electrical Labs
    - ReoTemp
    - Ives Equipment

Chicago Electrical Labs

Dean, Samuel

From: Dean, Samuel
Sent: Monday, September 30, 2024 4:39 PM
To: Jim Reinsel
Cc: Hostetter, David
Subject: Request for Proposal
Attachments: LF Well Monitoring Item #1 RFP.pdf

Importance: High

Hi Jim,

I hope this finds you well. We are requesting a quote per the attached specification to source a large quantity of sensors for a project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Wednesday, October 2.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

Dean, Samuel

From: Jim Reinsel [redacted]
Sent: Thursday, October 3, 2024 1:50 PM
To: Dean, Samuel
Subject: RE: Quote

Hey Sam!

We're looking at 7 weeks ARO. May be able to shave a little off of that but that's a pretty good estimate.

Thanks,

Jim

From: Dean, Samuel [redacted]
Sent: Wednesday, October 2, 2024 5:47 PM
To: Jim Reinsel [redacted]
Subject: RE: Quote

Hi Jim,

No, we do not have a specified date for this. We need to evaluate the cost and lead times for a project this scale for the client. I would provide a lead time that you feel is achievable.

Thanks,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Jim Reinsel [redacted]
Sent: Wednesday, October 2, 2024 5:38 PM
To: Dean, Samuel [redacted]
Subject: Re: Quote

Do you have a required time frame?

Get Outlook for iOS

From: Dean, Samuel [redacted]
Sent: Wednesday, October 2, 2024 4:49:35 PM
To: Jim Reinsel [redacted]
Subject: RE: Quote

Hi Jim,

Thank you. Can you provide a lead time for these?

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Jim Reinsel [redacted]
Sent: Tuesday, October 1, 2024 1:35 PM
To: Dean, Samuel [redacted]
Subject: Quote

Good afternoon!

Here you go.

Your bill to address is probably correct.

The ship to can be changed to whatever you want.

Thanks,

Jim

From: Dean, Samuel [redacted]
Sent: Tuesday, October 1, 2024 10:21 AM
To: Jim Reinsel [redacted]
Subject: RE: Instrumentation information

Hi Jim,

No this is the same exact application at a landfill. I couldn't include details due to confidentiality. These should be the same sensors that you have previously sourced for us.

Sam Dean
Senior Project Manager
SCS RMC

[redacted]

www.scsengineers.com

From: Jim Reinsel [redacted]
Sent: Tuesday, October 1, 2024 9:59 AM
To: Dean, Samuel [redacted]
Subject: RE: Instrumentation information

On another note:

I'm assuming the application of these thermocouples (down-well) is different than landfill monitoring?

If so, which application do you folks work on more?

Just curious.

Thanks,

Jim

From: Dean, Samuel [redacted]
Sent: Tuesday, October 1, 2024 9:27 AM
To: Jim Reinsel [redacted]
Subject: RE: Instrumentation information

Thanks Jim. I'll take a look at these. Sorry I didn't get back to you yet.

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Jim Reinsel [redacted]
Sent: Tuesday, October 1, 2024 8:47 AM
To: Dean, Samuel [redacted]
Subject: Instrumentation information

Good morning sir,

Hey, you never know.

We make and sell strain gauges as just one example.

Take a look and if you reply back with details we'll work on it for you.

https://clevelandelectriclabs.com/products-services/instrumentation/
https://clevelandelectriclabs.com/products-services/machining-services/
https://clevelandelectriclabs.com/products-services/additional-services/

Thanks!

Jim

External
External
External
External

CLEVELAND ELECTRIC LABORATORIES
Thermocouple Products & Services

Quotation: 213674

Contact:	Sam Dean
P:	
E:	[redacted]

Cleveland Electric Labs
1776 Enterprise Parkway
Twinsburg, OH 44087
P: [redacted]
F: [redacted]

Bill To: 102858
SCS ENGINEERS ACCTS PAYABLE
EMAIL INVOICES TO:
01SWACCOUNTSPAYABLE@SCSENGINEERS.COM 3900
KILROY AIRPORT WAY SUITE 100
LONG BEACH, CA 90806

Ship To:
CHIQUITA CANYON LANDFILL
29201 HENRY MAYO DR
VALENCIA, CA 91384

Order Note:

Terms	Ship Via	Shipping Expense	Sales Person	Quoted By
Net 30	Offline - FedEx - Freight FOB Twinsburg, OH		Jim Reinsel	Jim Reinsel

10/01/2024

Lead Time:

Line No.	Item No.	Qty	Unit Price	Unit of Measure	Extended Price
1	MGO-K-3-4-U-480-5-060-E-00-05-0 THERMOCOUPLE, MGO - UNGROUNDED JUNCTION, 480", FEP INSULATED STD TEMP TRANS (400 DEG F), 060", SS ADJ COMP FTG - 1/8" NPT, PLUG & JACK	240	[redacted]	EA	[redacted]
2	MGO-K-3-4-U-960-5-060-E-00-05-0 THERMOCOUPLE, MGO - UNGROUNDED JUNCTION, 960", FEP INSULATED STD TEMP TRANS (400 DEG F), 060", SS ADJ COMP FTG - 1/8" NPT, PLUG & JACK	240	[redacted]	EA	[redacted]
3	MGO-K-3-4-U-XXX-5-060-E-00-05-0 SCS (1440")	240	[redacted]	EA	[redacted]

T/C Type: K **Sheath:** 316SS
Sheath/PT Diameter: MgO - .125 (1/8)
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

T/C Type: K **Sheath:** 316SS
Sheath/PT Diameter: MgO - .125 (1/8)
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

Line No.	Item No.	Qty	Unit Price	Unit of Measure	Extended Price
	THERMOCOUPLE, MGO - UNGROUNDED JUNCTION, XXX, FEP INSULATED STD TEMP TRANS (400 DEG F), 060", SS ADJ COMP FTG - 1/8" NPT, PLUG & JACK				

Additional Description: XXX=120' (1440")
T/C Type: K **Sheath:** 316SS
Sheath/PT Diameter: MgO - .125 (1/8)
Blue: Yes
Tag Logo: CEL Logo
Tagging: STANDARD
Serialization: None

Total [redacted]

Thank you for the opportunity to quote. If you have any questions, please contact the 'Quoted By' person referenced above. Please also reference our QUOTATION NUMBER on your purchase order.

Quote valid for 30 days. Products containing Platinum and/or Rhodium are subject to change. Please confirm current pricing at time of order. Due to Nickel price volatility, items may be adjusted at time of order and/or line-item surcharge applied, as necessary. Freight charges and taxes are not included in quote price. Stated lead time does not include transit and is subject to material availability at time of order. Spools of wire are shipped +/- 10% of order quantity. Any changes in quantity or item deletions may require new quotation. Any typographical errors are not binding.

Cleveland Electric Laboratories provides statements of compliance by applying a simple acceptance decision rule as defined in ILAC G8.09/2019. In applying this decision rule, the TUR (test uncertainty ratio) shall be equal to or greater than 1:1 and equal to or greater than 4:1 whenever practicable. Cleveland Electric Laboratories' default decision rule results in a worst-case estimated probability of false accept (PFA) of < 50%. If you require an alternate decision rule, please contact Cleveland Electric Laboratories with your request. Note: customer decision rules may result in a cost alteration to your calibration services.

ReoTemp

From:	Sedillo, Dana
To:	[redacted]
Cc:	Dean, Samuel; Hostetter, David
Subject:	Request for Quote
Date:	Friday, October 4, 2024 12:19:00 PM
Attachments:	LF Well Monitoring Item #1 RFP.pdf

Hi Nate,

We are requesting a quote per the attached specification to source a large quantity of sensors for a potential project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Tuesday, October 8.

Thanks and let me know if you have any questions.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

Driven by Client Success
www.scsengineers.com

Nathan OConnor

Hi Dana, please review the quote I prepared for you below and respond at your earliest convenience. Use the contact sales button below to send me a message, if you have any questions or changes needed. - Nate

Edit Quote

Do you want to change quantities or add a different item?

Contact Sales

Click here to message your sales person for any changes needed.

Send Purchase Request

Look good? Click here to let us know to get your order started.

Export PDF

Export Excel

REOTEMP

Quote 173027.1

10/07/24

To: SCS Engineering
Dana Sedillo
[redacted]
PA, United States

By: Nate OConnor
[redacted]

Validity	Lead Time	Payment Terms	Freight Terms	Shipment Location
Expires on 12/06/2024	10 Weeks	Net 30	Ex Works, Factory	California

Down-Well Thermocouple: 40ft

Connection: Plain Stem
Stem Option: With 1/8" NPT SS Compression Fitting. Q=”Adjustable with Teflon ferrule" Loose on Stem
Sensor: Single Type K Ungrounded Junction
Stem: 1/8" dia. 316SS Stem length= 480" (40ft)
Transition: Std. Transition
Leads: 2 ea Teflon insulated Solid leads T1 - 60in.
Terminated w/ Male Std Size Plug with Mating Female Connector
Certificate of Temperature Calibration/Sticker 1 Point - Reotemp Choice
Magnesium-oxide powder insulation (MI Cable)
Temp. Rating: 1700F
Negative Buoyancy

Per DWG #: 21569

2	240	**AVQM12K1SU960-LK2P60T1FMC-R1**	[redacted]

Down-Well Thermocouple: 80ft

Connection: Plain Stem
Stem Option: With 1/8" NPT SS Compression Fitting. Q=”Adjustable with Teflon ferrule" Loose on Stem
Sensor: Single Type K Ungrounded Junction
Stem: 1/8" dia. 316SS Stem length= 960" (80ft)
Transition: Std. Transition
Leads: 2 ea Teflon insulated Solid leads T1 - 60in.
Terminated w/ Male Std Size Plug with Mating Female Connector
Certificate of Temperature Calibration/Sticker 1 Point - Reotemp Choice
Magnesium-oxide powder insulation (MI Cable)
Temp. Rating: 1700F
Negative Buoyancy

Per DWG #: 21569

3	240	**AVQM12K1SU1440-LK2P60T1FMC-R1**	[redacted]

Down-Well Thermocouple: 120ft

Connection: Plain Stem
Stem Option: With 1/8" NPT SS Compression Fitting. Q=”Adjustable with Teflon ferrule" Loose on Stem
Sensor: Single Type K Ungrounded Junction

Terminated w/ Male Std Size Plug with Mating Female Connector
Certificate of Temperature Calibration/Sticker 1 Point - Reotemp Choice
Magnesium-oxide powder insulation (MI Cable)
Temp. Rating: 1700F
Negative Buoyancy

Per DWG #: 21569

Total: [redacted]

Contact Us

10656 Roselle Street
San Diego, CA
92121
800-648-7737
sales@reotemp.com

Connect With Us

About Us

Reotemp is a globally recognized US manufacturer of temperature and pressure instrumentation.

ISO QUALITY SYSTEM

Reotemp is ISO 9001: 2015 Certified by TÜV SÜD

Ives Equipment

Hostetter, David

From: Dean, Samuel
Sent: Tuesday, October 8, 2024 5:47 PM
To: Donald Amspacher; Carl Forry
Cc: Hostetter, David; Sedillo, Dana
Subject: RE: Request for Quote
Attachments: LF Well Monitoring Item #2 RFP (Ives).pdf; LF Well Monitoring Item #3 RFP (Ives).pdf; LF Well Monitoring Item #1 RFP.pdf

Hi guys,

Can you please provide an update on the quote requests we sent last week? Please let us know if you are able to provide a quote for the requested items or have any questions.

Thanks,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Jon McElhaney [redacted]
Sent: Friday, October 4, 2024 12:48 PM
To: Dean, Samuel [redacted]
Cc: Donald Amspacher [redacted] Hostetter, David [redacted] Carl Forry [redacted]
Subject: RE: Request for Quote

Sam,

I no longer handle your territory.

Don and his inside salesman Carl Forry will supply you with a quote.

Have a good day!

Jon McElhaney - Inside Sales
Ives Equipment Corporation
Phone: [redacted]
Fax: [redacted]
E-mail: [redacted]
www.ivesequipment.com

From: Dean, Samuel [redacted]
Sent: Friday, October 4, 2024 12:14 PM
To: Jon McElhaney [redacted]
Cc: Donald Amspacher [redacted] Hostetter, David [redacted]
Subject: Request for Quote
Importance: High

> You don't often get email from [redacted] Learn why this is important

Hi Jon,

We are requesting a quote per the attached specification to source a large quantity of sensors for a potential project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Tuesday, October 8.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

ATTACHMENT B (COMPONENT #2) – DOWN-WELL TRANSDUCERS

- Requests for Quotations and Vendor/Manufacturer/Distributor Quotes and Responses
    - Miller Energy
    - North East Technical Sales
    - Ives Equipment

Miller Energy

Dean, Samuel

From: James Cagwin - Miller Energy [redacted]
Sent: Tuesday, October 1, 2024 6:47 PM
To: Dean, Samuel
Cc: Hostetter, David
Subject: RE: Request for Proposal
Attachments: LF Well Monitoring Items #2 and #3 RFP.pdf; SQ5026352 (10.1.2024).pdf

Hi Sam,

Thank you for the request. Please find the attached quote SQ5026352 for the project requested items. These items meet the specifications as requested. The delivery quoted is confirmed from the factory as achievable. It is possible they can improve with a [redacted] expedite fee, but I do not have specifics at this time as to how much improvement is possible.

As discussed, I am working on alternative items as well to present.

If you have any questions please let me know.

Kind regards,

James Cagwin
Miller Energy, Inc.
505 Gordon Dr.
Exton, PA 19341
Cell: [redacted]
Office: [redacted]

Miller Energy Linecard

From: Dean, Samuel [redacted]
Sent: Monday, September 30, 2024 11:19 PM
To: James Cagwin - Miller Energy [redacted]

Cc: Hostetter, David [redacted]
Subject: Request for Proposal
Importance: High

Hi James,

We are requesting a quote per the attached specification to source a large quantity of sensors for a project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Wednesday, October 2.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean

Senior Project Manager

SCS RMC

[redacted]

[redacted]

www.scsengineers.com

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026352

DATE 10/1/2024

PROJECT REFERENCE LF Well Monitoring Items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 12 WEEKS -13 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
1	240	Wika Instrument Corp. Part No. 52990885 IS-3 -100...100 inWC; 1/4" NPT 4-20mA 2-wire @ 11...30 V DC, Accuracy: 0.25% of span Material of Wetted Parts: stainless steel Adjustability: Zero/span adjustable Field case, conduit 1/2 NPT female with spring clip terminal UB=1, 0V=2 permitted media temperature: -20...+80°C Approvals: ATEX/IECEx/FM/CSA Additional certifications: without Specifications according to data sheet: PE 81.58 Product Catalog 	[redacted]	[redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
2	240	Wika Instrument Corp. Part No. 52827338 910.32.100 Miniature Cooling Adaptor 1/4 F x 1/4 M Product Catalog 	[redacted]	[redacted]

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026352

DATE 10/1/2024

PROJECT REFERENCE LF Well Monitoring Items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 12 WEEKS -13 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
3	240	Wika Instrument Corp. Part No. 76216369 Intrinsically safe Level Probe Model IL-10 Submersible Liquid Level Transmitter Specifications according to data sheet: PE 81.23 Power Supply: DC 10 ... 30 V Output signal: 4 ... 20 mA, 2-wire Ingress Protection: IP 68 Pressure Range: 0 ... 50 psi Process Connection: G 1/2 B Special Design Features: Hastelloy with FEP Cable Accuracy: 0.5% of span Cable Length: 60 m Approvals: I M1, II 1G, II 1/2G, II 2G, II 1D per ATEX/IECEx incl. CSA **This item is made to order, therefore it is non-returnable and non-cancellable. Product Catalog	[redacted]	[redacted]

Total: [redacted]

General Terms:
1.) This proposal is subject to Miller Energy Standard Terms and Conditions.
2.) Product images are for reference purposes only.
3.) 3.75% Service Fee applied to all credit card payments.

Please address your Order as follows:

Miller Energy Inc.
505 Gordon Drive
Exton, PA 19341-1252

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026360

PAGE 1

DATE 10/2/2024

PROJECT REFERENCE LF Well Monitoring items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
1	240	Part No. PGS100.F.S9.A.1.A.A.Y.S.H-D3.HCM Essential Gauge Pressure Transmitter. 2 and 40 kPa (20 and 400 mbar, 8 and 160 in. H2O) Sensor Range. AISI 316L SS Diaphragm. Silicone Oil fill fluid. AISI 316L. 1/2 in. - 14NPT female process connection. HART / 4 to 20 mA (including Easy Set up) Output. Glass touch LCD display with 2-button keypad.CSA approvals (USA and Canada) IS (Gas and Dust). *** Requires Cooling Tower to meet Process Temperature Requirements ***	[redacted]	[redacted]

Product Catalog

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026360

DATE 10/2/2024

PROJECT REFERENCE LF Well Monitoring items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
2	240	Dwyer Instruments Inc. Part No. 3200G-1-FM-1-1 Series 3200G Ex-Proof Pressure Transmitter Range: -14.5 to 21 psi (factory set 0 to 21 psig) Wetted Materials: 316L SS. Accuracy: ±0.075% FS (@ 20°C). Rangeability: 100:1 turn down. Power Requirements: 11.9 to 45 VDC. Output Signal: 4 to 20 mA / HART® Communication. Process Connections: 1/2" female NPT. Electrical Conn: Two 1/2" female NPT conduit, screw terminal Display: without LCD NEMA 4X (IP66) and Ex-Proof Class 1 Div 1 Grp A-D Weight: 5.5 lb (2.5 kg). Agency Approvals: CE, FM. *** Requires Cooling Tower to meet Process Temperature Requirements *** Product Catalog	[redacted]	[redacted]

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026360

PAGE 3

DATE 10/2/2024

PROJECT REFERENCE LF Well Monitoring items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
3	240	Dwyer Instruments Inc. Part No. SBLTX-50-100-ETFE Series SBLTX Submersible Level Transmitter 50psi 100 Feet ETFE Cable Wetted Materials: Body: 316 SS, 316L SS; Bullet nose: PVC Cable: ETFE Seals: Fluoroelastomer Accuracy: ±0.25% FS. Temperature Limit: -4 to 176°F (-20 to 80°C) Power Requirement: 10 to 28 VDC. Output Signal: 4 to 20 mA DC, 2-wire. Intrinsically Safe for Class I, Div. 1, Group A-D Product Catalog 	[redacted]	[redacted]

Total: [redacted]

General Terms:
1.) This proposal is subject to Miller Energy Standard Terms and Conditions.
2.) Product images are for reference purposes only.
3.) 3.75% Service Fee applied to all credit card payments.

Please address your Order as follows:

Miller Energy Inc.
505 Gordon Drive
Exton, PA 19341-1252

North East Technical Sales

From: Dean, Samuel
To: Christine Foster; John Dezzi
Cc: Hostetter, David
Subject: Request for Quote
Date: Thursday, October 3, 2024 3:50:00 PM
Attachments: LF Well Monitoring Item #2 RFP.pdf

Hi Tina and John,

We are requesting a quote per the attached specification to source a large quantity of sensors for a potential project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Tuesday, October 8.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

Dean, Samuel

From: John Dezzi [redacted]
Sent: Monday, October 7, 2024 10:48 AM
To: Dean, Samuel; Christine Foster
Cc: Hostetter, David
Subject: RE: Request for Quote
Attachments: 34733-EN-VEGAWELL-52-4-20-mA.pdf

Sam:

For this one, I don't have anything that can meet your minimum requirements. Best we could supply the attached which has a max Temp rating of 80C (176F). if you need that higher temperature rating, then we will pass on this one.

John M Dezzi
North East Technical Sales, Inc.
Outside Sales Engineer
171 Ruth Road
Harleysville, PA 19438
[redacted] Direct
Main Office
Cell
North East TECHNICAL SALES, INC.
Process Measurement & Analysis Solutions
www.netechsales.com | Follow us on LinkedIn

From: Dean, Samuel [redacted]
Sent: Thursday, October 3, 2024 3:50 PM
To: Christine Foster [redacted] John Dezzi [redacted]
Cc: Hostetter, David [redacted]
Subject: Request for Quote

Hi Tina and John,

We are requesting a quote per the attached specification to source a large quantity of sensors for a potential project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Tuesday, October 8.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

Specification sheet

VEGAWELL 52

4 … 20 mA

Submersible pressure transmitter with ceramic measuring cell

Application area

VEGAWELL 52 is suitable for continuous level measurement of liquids. Typical applications are measurements in water/waste water facilities, deep wells and in the shipbuilding industry.

Your benefit

- High reliability through maximum overload and vacuum resistance of the ceramic measuring cell
- High plant availability through integrated overvoltage protection
- Versatile use thanks to robust housing and cable version

Function

The ceramic CERTEC® measuring cell is the heart of VEGAWELL 52. The hydrostatic pressure of the liquid column causes a capacitance change in the measuring cell via the ceramic diaphragm. This change is converted into a standard 4 … 20 mA signal. The entire measuring cell consists of high purity ceramic and is characterised, apart from its excellent long-term stability, by very high overload resistance.

Technical data

Measuring ranges	+0.1 … +60 bar/+10 … +6000 kPa (+1.45 … +870.2 psig)
Smallest measuring range	+0.1 bar/+10 kPa (+1.45 psig)
Deviation in characteristics	0.1 %
Process fitting	Straining clamp, threaded fitting unassembled from G1 (ISO 228-1) or from 1 NPT, thread G1½ (ISO 228-1) or from 1½ NPT on the housing
Process temperature	-20 … +80 °C (-4 … +176 °F)
Ambient, storage and transport temperature	-40 … +80 °C (-40 … +176 °F)
Operating voltage	8 … 35 V DC

Materials

The transmitter of the instrument is made of 316L, Duplex (1.4462), Titanium or PVDF. The process seal consists of FKM, FFKM or EPDM, the suspension cable of PE, PUR or FEP.
You will find a complete overview of the available materials and seals in the "*Configurator*" at www.vega.com and "*VEGA Tools*".

Housing versions

Apart from the version with unassembled cable end, there is also a version with single chamber housing and thread available.
The housing in protection rating IP 66/IP 67 is available in plastic or stainless steel precision casting.

Electronics versions

The instruments are available in different electronics versions. Apart from the analogue/digital two-wire electronics 4 … 20 mA/HART Pt 100, a pure analogue version 4 … 20 mA is also possible.

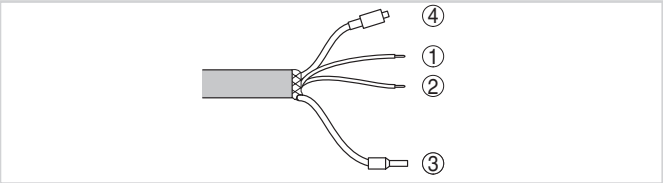
Approvals

The instruments are suitable for use in hazardous areas and are approved e.g. according to ATEX and IEC. The instruments also have various ship approvals such as e.g. GL, LRS or ABS.
You can find detailed information at www.vega.com/downloads and "*Approvals*".

Operation

An adjustment of the instrument is not necessary and not possible. The measuring range corresponds to the value set at the factory.

Electrical connection

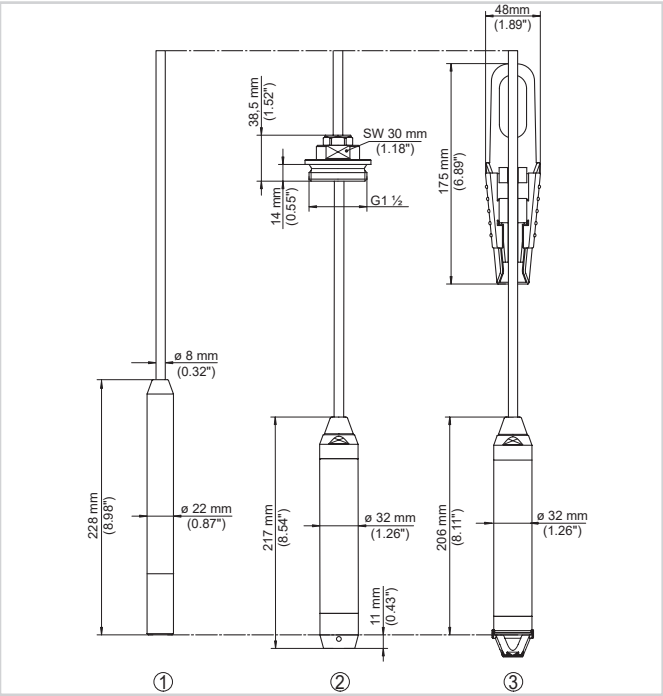


Wire assignment, suspension cable

1 *Blue (-): to power supply or to the processing system*
2 *Brown (+): to power supply or to the processing system*
3 *Shielding*
4 *Breather capillaries with filter element*

You can find details on electrical connection in the instrument operating instructions at www.vega.com/downloads.

Dimensions



Dimensions VEGAWELL 52

1 *Standard version*
2 *Version with adjustable screw connection for suspension cable G1½ A, with impact protection*
3 *Version with straining clamp and detachable plastic basket guard*

Information

You can find further information about the VEGA product line on www.vega.com.
In the download section at www.vega.com/downloads you'll find operating instructions, product information, brochures, approval documents, instrument drawings and much, much more.
There, you will also find GSD and EDD files for Profibus PA systems as well as DD and CFF files for Foundation Fieldbus systems.

Instrument selection

With the "*Finder*" at www.vega.com/finder and "*VEGA Tools*" you can select the most suitable measuring principle for your application.

You can find detailed information on the instrument versions in the "*Configurator*" at www.vega.com/configurator and "*VEGA Tools*".

Contact

You can find the VEGA agency serving your area on our homepage www.vega.com.

VEGA Grieshaber KG, Am Hohenstein 113, 77761 Schiltach/Germany, www.vega.com

Ives Equipment

From: Dean, Samuel
To: Donald Amspacher; Carl Forry
Cc: Hostetter, David; Sedillo, Dana
Subject: RE: Request for Quote
Date: Tuesday, October 8, 2024 2:46:38 PM
Attachments: LF Well Monitoring Item #2 RFP (Ives).pdf
LF Well Monitoring Item #3 RFP (Ives).pdf
LF Well Monitoring Item #1 RFP.pdf

Hi guys,

Can you please provide an update on the quote requests we sent last week? Please let us know if you are able to provide a quote for the requested items or have any questions.

Thanks,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Jon McElhaney [redacted]
Sent: Friday, October 4, 2024 12:48 PM
To: Dean, Samuel [redacted]
Cc: Donald Amspacher [redacted] Hostetter, David [redacted] Carl Forry [redacted]
Subject: RE: Request for Quote

Sam,

I no longer handle your territory.

Don and his inside salesman Carl Forry will supply you with a quote.

Have a good day!

Jon McElhaney - Inside Sales
Ives Equipment Corporation
Phone: [redacted]

Fax: [redacted]
E-mail: [redacted]
www.ivesequipment.com

From: Dean, Samuel [redacted]
Sent: Friday, October 4, 2024 12:14 PM
To: Jon McElhaney [redacted]
Cc: Donald Amspacher [redacted] Hostetter, David [redacted]
Subject: Request for Quote
Importance: High

> You don't often get email from [redacted] Learn why this is important

Hi Jon,

We are requesting a quote per the attached specification to source a large quantity of sensors for a potential project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Tuesday, October 8.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

ATTACHMENT C, (COMPONENT #3) – TOP-MOUNTED PRESSURE TRANSDUCERS

- Requests for Quotations and Vendor/Manufacturer/Distributor Quotes and Responses
    - Miller Energy
    - North East Technical Sales
    - Ives Equipment

Miller Energy

Dean, Samuel

From: James Cagwin - Miller Energy [redacted]
Sent: Tuesday, October 1, 2024 6:47 PM
To: Dean, Samuel
Cc: Hostetter, David
Subject: RE: Request for Proposal
Attachments: LF Well Monitoring Items #2 and #3 RFP.pdf; SQ5026352 (10.1.2024).pdf

Hi Sam,

Thank you for the request. Please find the attached quote SQ5026352 for the project requested items. These items meet the specifications as requested. The delivery quoted is confirmed from the factory as achievable. It is possible they can improve with a [redacted] expedite fee, but I do not have specifics at this time as to how much improvement is possible.

As discussed, I am working on alternative items as well to present.

If you have any questions please let me know.

Kind regards,

James Cagwin
Miller Energy, Inc.
505 Gordon Dr.
Exton, PA 19341
Cell: [redacted]
Office: [redacted]

Miller Energy Linecard

From: Dean, Samuel [redacted]
Sent: Monday, September 30, 2024 11:19 PM
To: James Cagwin - Miller Energy [redacted]

Cc: Hostetter, David [redacted]
Subject: Request for Proposal
Importance: High

Hi James,

We are requesting a quote per the attached specification to source a large quantity of sensors for a project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Wednesday, October 2.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean

Senior Project Manager

SCS RMC

[redacted]

[redacted]

www.scsengineers.com

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026352

DATE 10/1/2024

PROJECT REFERENCE LF Well Monitoring Items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 12 WEEKS -13 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
1	240	Wika Instrument Corp. Part No. 52990885 IS-3 -100...100 inWC; 1/4" NPT 4-20mA 2-wire @ 11...30 V DC, Accuracy: 0.25% of span Material of Wetted Parts: stainless steel Adjustability: Zero/span adjustable Field case, conduit 1/2 NPT female with spring clip terminal UB=1, 0V=2 permitted media temperature: -20...+80°C Approvals: ATEX/IECEx/FM/CSA Additional certifications: without Specifications according to data sheet: PE 81.58 Product Catalog 	[redacted]	[redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
2	240	Wika Instrument Corp. Part No. 52827338 910.32.100 Miniature Cooling Adaptor 1/4 F x 1/4 M Product Catalog 	[redacted]	[redacted]

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026352

DATE 10/1/2024

PROJECT REFERENCE LF Well Monitoring Items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME 12 WEEKS -13 WEEKS
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
3	240	Wika Instrument Corp. Part No. 76216369 Intrinsically safe Level Probe Model IL-10 Submersible Liquid Level Transmitter Specifications according to data sheet: PE 81.23 Power Supply: DC 10 ... 30 V Output signal: 4 ... 20 mA, 2-wire Ingress Protection: IP 68 Pressure Range: 0 ... 50 psi Process Connection: G 1/2 B Special Design Features: Hastelloy with FEP Cable Accuracy: 0.5% of span Cable Length: 60 m Approvals: I M1, II 1G, II 1/2G, II 2G, II 1D per ATEX/IECEx incl. CSA **This item is made to order, therefore it is non-returnable and non-cancellable. Product Catalog	[redacted]	[redacted]

Total: [redacted]

General Terms:
1.) This proposal is subject to Miller Energy Standard Terms and Conditions.
2.) Product images are for reference purposes only.
3.) 3.75% Service Fee applied to all credit card payments.

Please address your Order as follows:

Miller Energy Inc.
505 Gordon Drive
Exton, PA 19341-1252

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026360

PAGE 1

DATE 10/2/2024

PROJECT REFERENCE LF Well Monitoring items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
1	240	Part No. PGS100.F.S9.A.1.A.A.Y.S.H-D3.HCM Essential Gauge Pressure Transmitter. 2 and 40 kPa (20 and 400 mbar, 8 and 160 in. H2O) Sensor Range. AISI 316L SS Diaphragm. Silicone Oil fill fluid. AISI 316L. 1/2 in. - 14NPT female process connection. HART / 4 to 20 mA (including Easy Set up) Output. Glass touch LCD display with 2-button keypad.CSA approvals (USA and Canada) IS (Gas and Dust). *** Requires Cooling Tower to meet Process Temperature Requirements ***	[redacted]	[redacted]

Product Catalog

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026360

DATE 10/2/2024

PROJECT REFERENCE LF Well Monitoring items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
2	240	Dwyer Instruments Inc. Part No. 3200G-1-FM-1-1 Series 3200G Ex-Proof Pressure Transmitter Range: -14.5 to 21 psi (factory set 0 to 21 psig) Wetted Materials: 316L SS. Accuracy: ±0.075% FS (@ 20°C). Rangeability: 100:1 turn down. Power Requirements: 11.9 to 45 VDC. Output Signal: 4 to 20 mA / HART® Communication. Process Connections: 1/2" female NPT. Electrical Conn: Two 1/2" female NPT conduit, screw terminal Display: without LCD NEMA 4X (IP66) and Ex-Proof Class 1 Div 1 Grp A-D Weight: 5.5 lb (2.5 kg). Agency Approvals: CE, FM. *** Requires Cooling Tower to meet Process Temperature Requirements *** Product Catalog	[redacted]	[redacted]

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026360

PAGE 3

DATE 10/2/2024

PROJECT REFERENCE LF Well Monitoring items
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Sam Dean
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
3	240	Dwyer Instruments Inc. Part No. SBLTX-50-100-ETFE Series SBLTX Submersible Level Transmitter 50psi 100 Feet ETFE Cable Wetted Materials: Body: 316 SS, 316L SS; Bullet nose: PVC Cable: ETFE Seals: Fluoroelastomer Accuracy: ±0.25% FS. Temperature Limit: -4 to 176°F (-20 to 80°C) Power Requirement: 10 to 28 VDC. Output Signal: 4 to 20 mA DC, 2-wire. Intrinsically Safe for Class I, Div. 1, Group A-D Product Catalog 	[redacted]	[redacted]

Total: [redacted]

General Terms:
1.) This proposal is subject to Miller Energy Standard Terms and Conditions.
2.) Product images are for reference purposes only.
3.) 3.75% Service Fee applied to all credit card payments.

Please address your Order as follows:

Miller Energy Inc.
505 Gordon Drive
Exton, PA 19341-1252

North East Technical Sales

Dean, Samuel

From: John Dezzi [redacted]
Sent: Monday, October 7, 2024 4:06 PM
To: Dean, Samuel; Christine Foster
Cc: Hostetter, David
Subject: RE: Request for Quote
Attachments: SCS Field Services-Dean-ABB-100724-01TFJD.pdf; DS_PGS_PAS_PGF_PAF_PGD_PAD_PAP_PGP100-EN_H 09.2023_IO Link.pdf

Sam:

Attached is a price for the ABB Compact Pressure Transmitter. I also included the data sheet for this transmitter. The standard unit has a max process Temperature rating of 248F. I included a price for a SS cooling tower element. However, the general rule of thumb is 1 foot of tubing drops the temperature by a min of 50F. So, you could install a 12in long SS tube ¼" in size for much less money than the cooling tower to achieve the same result.

Honestly, I would like to know more detail about the application because the 300F rating doesn't make sense to me if you are just measuring water pressure.

If you get a chance tomorrow morning I'm available to discuss this in more detail.

Sincerely,

John M Dezzi
North East Technical Sales, Inc.
Outside Sales Engineer
171 Ruth Road
Harleysville, PA 19438
[redacted] Direct
Main Office
Cell
North East TECHNICAL SALES, INC.
Process Measurement & Analysis Solutions
www.netechsales.com | Follow us on LinkedIn

From: Dean, Samuel [redacted]
Sent: Thursday, October 3, 2024 3:54 PM
To: Christine Foster [redacted] John Dezzi [redacted]
Cc: Hostetter, David [redacted]
Subject: Request for Quote

Hi Tina and John,

We are requesting another quote per the attached specification to source a large quantity of sensors for a potential project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Tuesday, October 8.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

North East TECHNICAL SALES, INC.

Scs Field Services, Inc.
2403 Hilltown Pike
Perkasie, PA 18944

Quotation #: 9295
Quotation Name: **LF Well Monitoring #3 RFP**
Date: October 7, 2024

Attn: Sam Dean
Email: [redacted]
Phone: [redacted]

North East Technical Sales, Inc. is pleased to submit the following quotation for your consideration:

Item	Qty.	Description	Unit Price	Ext. Price
1	240	**ABB Compact Pressure Transmitter** **PAS100.F.S9.A.1.A.B.Y.S.A-..HMM.....SE...M5** Essential Absolute Pressure Transmitter (Base accuracy 0.25 %) *** F**: 2 and 40 kPa (20 and 400 mbar, 8 and 160 in. H2O) - Sensor Range *** S9**: Standard by design according to sensor range - Maximum working pressure *** A:** AISI 316L ss - Diaphragm material *** 1:** Silicone oil - Fill Fluid *** A:** AISI 316L ss - Process Connection Material *** B:** 1/2 in - 14 NPT male / 1/4 in - 18 NPT female (adapter compatible) - Process Connection Size *** Y**: None - Bolts and Gaskets ***S**: AISI 316L ss / 1/2 in. -14 NPT female thread (through adapter - supplied loose) - Housing Material / Electrical Connection *** A**: 4 to 20 mA analog signal (Zero / Span setting only) -Protocol/Output *** HMM:** Combined ATEX, CSA approvals (USA and Canada) and IECEx (Gas and Dust) - Hazardous Area Certifications *** SE:** Local configuration (Easy Set Up) for 4..20mA Version - Software Application * **M5**: English – Manuals Max Temp Range 248F	[redacted]	[redacted]
2	240	COOLING ELEMENT, Omega Item #: PG-CTN4-G02 316L SS, Finned ¼" NPT M X F, 4.06" long (1.25" diameter) 302F max temp	[redacted]	[redacted]

Note: This quotation is for equipment only, service or installation can be quoted separately.

Please address purchase orders to: **North East Technical Sales**
171 Ruth Road
Harleysville, PA 19438

Please email or fax purchase order to North East Technical Sales for processing:

Email: [redacted]
Fax: [redacted]

Delivery: 5-7 weeks
FOB: Origin
Validity: 30 Days
Freight: Prepay and add
Terms: NET 30
Ship Via: ground

Credit Card: Add: 2.5% Fee for Credit Card Payments

Thank you for your interest in our products. If you have any questions or comments, please do not hesitate to contact me. We look forward to working with you and earning your business.

Quote Terms and Conditions

QUOTE CONDITIONS: This quote constitutes an offer by North East Technical Sales, Inc. to the buying party named on page 1 of this quote. This is for the sale of the products itemized above. You may accept this offer by providing North East Technical Sales, Inc. with an official purchase order citing the quotation number above or other written confirmation citing the quotation number above.

North East Technical Sales, Inc. has done their best to understand the application based on information provided by the buying party. Our proposal is accurate only based on the information provided by the buying party. The buying party is obligated to ensure that the equipment is installed and utilized per the specifications of the equipment for the application. North East Technical Sales will not be held liable for any bodily injuries, equipment damage, which occurs as a result of misuse of the equipment per the specifications of the manufacturer.

TERMS: If you have not accepted this quote within 30 days (can adjust as needed) of the date of this quote, this quote will expire and will be null and void.

PAYMENT: Payment terms for this quote are as set out in the “Payment” section of this quote or as agreed separately between you and North East Technical Sales, Inc.

GENERAL TERMS: All purchases of products and/or services are expressly and without limitation subject to the manufacturer’s terms & conditions of sale. Acceptance of North East Technical’s offer through one of the following methods shall constitute a contract of sale (“Contract”).

1. Buyer's issuance of a purchase order document against North East Technical’s offer or quotation.
2. North East Technical’s acknowledgement of the Buyer's order

DELIVERY: Delivery dates in respect of the products will be set by North East Technical Sales, Inc. upon receipt from the buyer of an official purchase order or other written confirmation accepting of this quote. North East Technical makes no guarantee in respect of delivery dates in respect of this quote and such dates are subject to change.
Shipping: All quotes are FOB Shipping Point unless otherwise noted.

WARRANTY: All Products are subject to the warranty given by the manufacturer of the Products.

Ives Equipment

From: Dean, Samuel
To: Donald Amspacher; Carl Forry
Cc: Hostetter, David; Sedillo, Dana
Subject: RE: Request for Quote
Date: Tuesday, October 8, 2024 2:46:38 PM
Attachments: LF Well Monitoring Item #2 RFP (Ives).pdf
LF Well Monitoring Item #3 RFP (Ives).pdf
LF Well Monitoring Item #1 RFP.pdf

Hi guys,

Can you please provide an update on the quote requests we sent last week? Please let us know if you are able to provide a quote for the requested items or have any questions.

Thanks,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Jon McElhaney [redacted]
Sent: Friday, October 4, 2024 12:48 PM
To: Dean, Samuel [redacted]
Cc: Donald Amspacher [redacted] Hostetter, David [redacted] Carl Forry [redacted]
Subject: RE: Request for Quote

Sam,

I no longer handle your territory.

Don and his inside salesman Carl Forry will supply you with a quote.

Have a good day!

Jon McElhaney - Inside Sales
Ives Equipment Corporation
Phone: [redacted]

Fax: [redacted]
E-mail: [redacted]
www.ivesequipment.com

From: Dean, Samuel [redacted]
Sent: Friday, October 4, 2024 12:14 PM
To: Jon McElhaney [redacted]
Cc: Donald Amspacher [redacted] Hostetter, David [redacted]
Subject: Request for Quote
Importance: High

> You don't often get email from [redacted] Learn why this is important

Hi Jon,

We are requesting a quote per the attached specification to source a large quantity of sensors for a potential project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Tuesday, October 8.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

ATTACHMENT D (COMPONENT #4) – INDUSTRIAL IIOT DEVICES

- Requests for Quotations and Vendor/Manufacturer/Distributor Quotes and Responses
    - North East Technical Sales
    - Instrumart
    - Miller Energy

North East Technical Sales

Dean, Samuel

From: Christine Foster [redacted]
Sent: Tuesday, October 1, 2024 10:23 AM
To: Dean, Samuel
Cc: John Dezzi
Subject: FW: Request for Proposal
Attachments: LF Well Monitoring Item #4 RFP.pdf; SCS Field Services-Dean-SF-100124-01TFJD.pdf

Importance: High

Good Morning Sam,
Attached above is the quote for your review.

Thank You,
Tina Foster

Tina Foster
Inside Sales
Direct: [redacted] · **Office:** [redacted]
Email:#firvwhuC qhwhfkvddnv1frp #

North / East
TECHNICAL SALES, INC.
Process Measurement & Analysis Solutions
www.netechsales.com | Follow us on LinkedIn

From: Dean, Samuel [redacted]
Sent: Monday, September 30, 2024 11:25 PM
To: Christine Foster [redacted]
Cc: John Dezzi [redacted] Hostetter, David [redacted]
Subject: Request for Proposal
Importance: High

Hi Tina,

We are requesting a quote per the attached specification to source a large quantity of IIoT devices for a project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Wednesday, October 2.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

North East
TECHNICAL SALES, INC.

Scs Field Services, Inc.
2403 Hilltown Pike
Perkasie, PA 18944

Attn: Sam Dean

Email: [redacted]

Quotation #: 9248

Quotation Name:
LF Well Monitoring

Date: October 1, 2024

Phone: [redacted]

North East Technical Sales, Inc. is pleased to submit the following quotation for your consideration:

Item	Qty.	Description	Unit Price	Ext. Price
1	240	**Ranger-STD-4DPAK-Int-Modbus-NoSim-N-N-N** RANGER LTE M1 Transmitter - 2DI,1AI,1DO - Round housing with ½" NPT input, 4 D Cell Pack, Internal LTE & GPS, Expansion Module with RS485 Modbus Serial port , No SIM Card. No SignalFire Cloud. User provides LTE CAT M1 SIM Card	[redacted]	[redacted]

Note: This quotation is for equipment only, service or installation can be quoted separately.

Please address purchase orders to: **North East Technical Sales**
171 Ruth Road
Harleysville, PA 19438

Please email or fax purchase order to North East Technical Sales for processing:

Email: [redacted]
Fax: [redacted]

Delivery: 3-4 weeks
Validity: 30 Days
Terms: NET 30
Credit Card: Add: 2.5% Fee for Credit Card Payments

FOB: Origin
Freight: Prepay and add
Ship Via: ground

Thank you for your interest in our products. If you have any questions or comments, please do not hesitate to contact me. We look forward to working with you and earning your business.

Quote Terms and Conditions

QUOTE CONDITIONS: This quote constitutes an offer by North East Technical Sales, Inc. to the buying party named on page 1 of this quote. This is for the sale of the products itemized above. You may accept this offer by providing North East Technical Sales, Inc. with an official purchase order citing the quotation number above or other written confirmation citing the quotation number above.

North East Technical Sales, Inc. has done their best to understand the application based on information provided by the buying party. Our proposal is accurate only based on the information provided by the buying party. The buying party is obligated to ensure that the equipment is installed and utilized per the specifications of the equipment for the application. North East Technical Sales will not be held liable for any bodily injuries, equipment damage, which occurs as a result of misuse of the equipment per the specifications of the manufacturer.

TERMS: If you have not accepted this quote within 30 days (can adjust as needed) of the date of this quote, this quote will expire and will be null and void.

PAYMENT: Payment terms for this quote are as set out in the “Payment” section of this quote or as agreed separately between you and North East Technical Sales, Inc.

GENERAL TERMS: All purchases of products and/or services are expressly and without limitation subject to the manufacturer’s terms & conditions of sale. Acceptance of North East Technical’s offer through one of the following methods shall constitute a contract of sale (“Contract”).

1. Buyer's issuance of a purchase order document against North East Technical’s offer or quotation.
2. North East Technical’s acknowledgement of the Buyer's order

DELIVERY: Delivery dates in respect of the products will be set by North East Technical Sales, Inc. upon receipt from the buyer of an official purchase order or other written confirmation accepting of this quote. North East Technical makes no guarantee in respect of delivery dates in respect of this quote and such dates are subject to change.
Shipping: All quotes are FOB Shipping Point unless otherwise noted.

WARRANTY: All Products are subject to the warranty given by the manufacturer of the Products.

Instrumart

Sedillo, Dana

From: Instrumart <sales@instrumart.com>
Sent: Friday, October 4, 2024 12:36 PM
To: Sedillo, Dana
Cc: sales@instrumart.com
Subject: Instrumart - Web Quote # WQ1067581

Web Quote

An engineer will email you a formal Quote as soon as your web transaction is processed.

Instrumart
Phone: 1-800-884-4967
Fax: 1-802-863-1193
Email: sales@instrumart.com

Quote Number: WQ1067581
Quote Date: 10/4/2024 3:36 PM

Contact Info:
SCS RMC - attn ChiquitaLF
Sam Dean
2403 Hilltown Pike
Perkasie
PA
18944
UNITED STATES
[redacted]

Ship To:
SCS RMC - attn ChiquitaLF
Sam Dean
2403 Hilltown Pike
Perkasie
PA
18944
UNITED STATES
[redacted]
Residential - Yes

Shipping Method: UPS Ground (3-6 days)

Items

SignalFire Wireless Telemetry Ranger Transmitter
Part Number: RANGER-4DPak-Int-NONE-NoSIM-N-N-N
Price: [redacted]
Quantity: 240
Total: [redacted]
Link: https://us-east-2.protection.sophos.com?d=instrumart.com&u=aHR0cHM6Ly93d3cuaW5zdHJ1bWFydC5jb20vcHJvZHVjdHMvY29uZmlndXJlLzQ5MDYzPzcxNDEzPTM5ODk1MCY3MTM5MD0zOTg4ODUmNzEzOTE9Mzk4ODg4JjcxMzkyPTM5ODg5MCY3MTM5Mz0zOTg4OTkmNzEzOTU9Mzk4OTA2JjcxMzk2PTM5ODkwMA==&p=m&i=NWJiZmJkMmIwN2I5NWYxMzQzZWRiYjNk&t=bllFcTBqc01IdGs2N2VQWHN4aTA5a1ZIektGeVJ6c1JpQXZFT2JDSFpTQT0=&h=210c284af91442bfa6db6ef15243c2da&s=AVNPUEhUT0NFTkNSWVBUSVYrqhzUIpnAk2ovAp5lEhu_dLI5cF0YdfJM9xTXKm2a3MjhB9x0HvCMottKZx4CktE
Availability: Usually ships in 2-3 weeks

-- OPTIONS --
Base Price: [redacted]
Model: Ranger Transmitter: Round housing with 1/2in NPT input [redacted]
Input Power: 4 D-cell pack
Antenna Type: Internal LTE and GPS
Additional I/O: Standard I/O package: 1 analog, 2 digital, 1 relay
SIM Card Configuration: None (user provides LTE CAT M1 SIM card) [redacted]
Subscription for Modbus Addresses: None
Report Interval: None

Surcharge: [redacted]
Shipping: [redacted]
Sales Tax: [redacted]
Total: [redacted]

This quote is valid for 30 days from the date the quote was created. To turn your instant quote into an order, call 800-235-8367 (toll-free in U.S. and Canada) or 802-863-0085, and provide your quote number (starts with "WQ"). Our office hours are Monday - Thursday 8:00am - 5:30pm ET, Friday 8:00am to 5:00pm ET.

Online quotes are only valid for customers located in the United States. Items intended for distribution outside of the US will require formal quotation from one of our sales engineers.

Miller Energy

Dean, Samuel

From: James Cagwin - Miller Energy [redacted]
Sent: Tuesday, October 8, 2024 3:43 PM
To: Sedillo, Dana
Cc: Dean, Samuel; Hostetter, David
Subject: Re: Request for Quote
Attachments: SQ5026401.pdf; LF Well Monitoring Item #4 RFP.pdf

Hi Dana,

Thank you for your inquiry. We are pleased to offer you the attached proposal for your review. I am awaiting delivery from the factory and will advise as soon as possible. A qty of 240 pcs. will surpass typical demand and push lead times out further than normal.

Kind regards,

James Cagwin
Miller Energy, Inc.
505 Gordon Dr.
Exton, PA 19341
Cell: [redacted]
Office: [redacted]
Miller Energy Linecard

On Mon, Oct 7, 2024 at 7:05 PM Sedillo, Dana [redacted] wrote:

> Hi James,
>
> We are requesting a quote per the attached specification to source a large quantity of sensors for a potential project.
>
> Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Wednesday, October 9.
>
> Thanks and let me know if you have any questions.

Thank You,

Dana Sedillo

Project Coordinator

SCS RMC

[redacted]

[redacted]

Driven by Client Success

www.scsengineers.com

MILLER ENERGY INC.
505 Gordon Drive
Exton, PA 19341-1252
TEL: [redacted]
FAX: [redacted]

QUOTATION SQ5026401

PAGE 1

DATE 10/8/2024

PROJECT REFERENCE LF Well Monitoring Item #4
VALIDITY 30 Days
PAYMENT TERMS NET 45 DAYS
LEAD TIME
SHIPPING TERMS

ACCOUNT MANAGER James Cagwin
PREPARED BY James Cagwin

Quotation For:

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816
Attn: Dana Sedillo
Phone: [redacted]

ITEM	QTY	Description	UNIT PRICE	EXTENDED PRICE
1	240	Part No. RANGER-4DPAK-INT-MODBUS-NOSIM-N-N SignalFire RANGER - Plug and play, instant connectivity of a sensor to the cloud over cellular networks. [4Dpak] Standard – 4 D Cell Pack [Int] Standard - Internal LTE & GPS [Modbus] 1 analog input, 2 digital inputs, 1 relay output with Modbus RS485 Expansion Module [NoSIM] No SIM card, no SignalFire Cloud, user provides LTE CAT M1 SIM [N] No Modbus Register Count [N] Reporting Interval Not Applicable - customer provides SIM Product Catalog 	[redacted]	[redacted]

Total: [redacted]

General Terms:
1.) This proposal is subject to Miller Energy Standard Terms and Conditions.
2.) Product images are for reference purposes only.
3.) 3.75% Service Fee applied to all credit card payments.

Please address your Order as follows:

Miller Energy Inc.
505 Gordon Drive
Exton, PA 19341-1252

ATTACHMENT E (COMPONENT #5) – REMOTE INPUT CARDS

- Requests for Quotations and Vendor/Manufacturer/Distributor Quotes and Responses
    - Stokes Electric
    - Advantech
    - Instrumart

Stokes Electric

Dean, Samuel

From: Shannon Wood [redacted]
Sent: Friday, October 4, 2024 11:31 AM
To: Dean, Samuel
Cc: Patrick Presto; Hostetter, David
Subject: RE: Request for Proposal
Attachments: SQ_5053387.pdf

Hi I Sam!

Thank you for this opportunity. Attached is the quote you requested. I apologize for the delay. Please let me know if you have feedback and if the project is going to move forward.

Shannon

Shannon Wood
Automation Sales Engineer
Cell: [redacted] (preferred)

Stokes Electrical Supply Company
Stokes ELECTRICAL SUPPLY COMPANY
Locations: Easton, PA / Emmaus, PA / Mesa, AZ

Stokes Electrical Supply
3401 Northwood Ave.
Easton, PA 18045
Office [redacted]

One Stop Controls
100 Keystone Avenue
Emmaus, PA 18049
Office [redacted]

From: Dean, Samuel [redacted]
Sent: Wednesday, October 2, 2024 3:59 PM
To: Shannon Wood [redacted]
Cc: Patrick Presto [redacted] Hostetter, David [redacted]
Subject: RE: Request for Proposal

Thanks Shannon.

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Shannon Wood [redacted]
Sent: Wednesday, October 2, 2024 3:13 PM
To: Dean, Samuel [redacted]
Cc: Patrick Presto [redacted] Hostetter, David [redacted]
Subject: RE: Request for Proposal

Hi Sam!

I am still waiting for lead times from the Horner planner. As soon as I have that, I will send you a quote. Thank you for your patience.

Shannon Wood
Automation Sales Engineer
Cell: [redacted] (preferred)

Stokes Electrical Supply Company
Stokes Electrical Supply Company
Locations: Easton, PA / Emmaus, PA / Mesa, AZ

Stokes Electrical Supply
3401 Northwood Ave.
Easton, PA 18045
Office [redacted]

One Stop Controls
100 Keystone Avenue
Emmaus, PA 18049
Office [redacted]

From: Dean, Samuel [redacted]
Sent: Wednesday, October 2, 2024 11:33 AM
To: Shannon Wood [redacted]
Cc: Patrick Presto [redacted] Hostetter, David [redacted]
Subject: RE: Request for Proposal

Hi Shannon,

Responses to your questions are below.

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Shannon Wood [redacted]
Sent: Wednesday, October 2, 2024 10:06 AM
To: Dean, Samuel [redacted]

Cc: Patrick Presto [redacted] Hostetter, David [redacted]
Subject: Re: Request for Proposal

Hi Samuel!

I left a voicemail for you. I am working on your quote and have a few more questions. I need this information before I am able to get special pricing from the manufacturer.

1. Is this an order that you have already or a project that you are bidding? This is not for an existing project. We are working with an existing client to evaluate the cost and project schedule based on equipment lead times. This is an opportunity that is not secured yet as the client needs to understand the cost and lead times.
2. Who is the completion we are bidding against? Manufacturer and product? We are not competitively bidding the RIO components you are quoting.
3. Will you be purchasing all 240 of each at one time or in smaller quantities? We would be purchasing at one time.
4. If you purchase all at once, will all shipments be released within 4 months of PO date? We would take shipment of the components when available provided the shipping costs are reasonable when split. This should be factored into the cost.
5. What is your desired delivery for all 240 of each? I am working with the planners to get the lead time. Because there are multiple components involved, I might not have this answer by 12pm today. Knowing your target would be helpful. We do not a deadline for the project. It is time sensitive so we ask that you provide the best reasonable lead time for this large quantity.

Thanks,
Shannon

Shannon Wood
Automation Sales Engineer
Stokes Electric
[redacted]
Sent from my iPhone

> On Oct 1, 2024, at 10:22 AM, Dean, Samuel [redacted] wrote:
>
> Hi Shannon,
>
> Yes. We needed to provide a performance spec on this one which is based it on the Smartmods that have been very reliable for us.
>
> Sam Dean
> Senior Project Manager
> SCS RMC
> [redacted]
>
> www.scsengineers.com

From: Shannon Wood [redacted]
Sent: Tuesday, October 1, 2024 10:11 AM
To: Dean, Samuel [redacted] Patrick Presto [redacted]
Cc: Hostetter, David [redacted]
Subject: RE: Request for Proposal

Hi Sam!

These specs line up with the Horner SmartMod product. Is that where you were headed with this?

Shannon Wood
Automation Sales Engineer
Cell: [redacted] (preferred)

<image001.png>

Stokes Electrical Supply
3401 Northwood Ave.
Easton, PA 18045
Office [redacted]

One Stop Controls
100 Keystone Avenue
Emmaus, PA 18049
Office [redacted]

From: Dean, Samuel [redacted]
Sent: Monday, September 30, 2024 11:30 PM
To: Patrick Presto [redacted]
Cc: Hostetter, David [redacted] Shannon Wood [redacted]
Subject: Request for Proposal
Importance: High

Hi Patrick,

We are requesting a quote per the attached specification to source a large quantity of devices for a project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Wednesday, October 2.

Thanks and let me know if you have any questions.

Best regards,

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

Stokes Electrical Supply Co., Inc.
3401 Northwood Avenue
Easton, PA 18045
Phone: [redacted]
Fax: [redacted]

SALES QUOTATION

ORDER:	5053387
DATE:	10/01/2024
EXPIRES:	10/31/2024
ACCOUNT:	200177
CONTACT:	Sam Dean
PHONE:	[redacted]
PAGE:	1 of 1

SOLD TO	SHIP TO
Stearns,Conrad & Schmidt Engineers,Inc. 3900 Kilroy Airport Way, Suite 100 Long Beach , CA 90806	**Stearns,Conrad & Schmidt Engineers,Inc.** 3900 Kilroy Airport Way, Suite 100 Long Beach , CA 90806 CONTACT: Sam Dean [redacted]

CUSTOMER PO	TERMS	ENTERED BY
Horner Smart Mod for LF Well Application	Net 30 Days	Shannon Wood

L	ITEMS	DESCRIPTION	QTY	NET PRICE	EXT PRICE
1	 HOR HE359ADC120	4 channel Analog Inputs, Current (4-20mA), 1uA resolution, 2000vac isolation (ch-RS485 & ch-power)	240 EA	[redacted]	[redacted]
		26 pcs in stock.			
	COMMENT:	Ship complete (240 pcs) in 6-8 weeks or partial shipments as they become available.			
2	 HOR HE359THM100	4 channel Thermocouple Inputs (Types J,K,R,S,B,E,T,N) or millivolt inputs (+/-1000mV, max). 0.1 degrees Celsius resolution, 2000vac isolation (ch-RS485 & ch-power)	240 EA	[redacted]	[redacted]
		43 pcs in stock.			
	COMMENT:	Ship complete (240 pcs) in 6-8 weeks or partial shipments as they become available.			

ORDER NOTES:Pricing is only valid for the quantity listed. Blanket PO okay with scheduled releases to be taken within 4 months of receipt of order. Orders over 100pcs NCNR - non-cancellable non-returnable.

ORDER NOTES:Freight is additional, Ex Works: Indianapolis, IN 46201

We sincerely appreciate the opportunity to quote on your requirements and look forward to receiving your order. This quotation is our interpretation of your requirements. Please advise of any changes necessary. Thank you!

Please email your orders to orders@stokeselectric.com

There is no tax calculated on this quote

Subtotal:	[redacted]
Freight:	[redacted]
Sales Tax:	[redacted]
Total:	[redacted]

X_____**Date**_____

Advantech

Advantech Corporation | 380 Fairview Way, Milpitas, CA 95035, USA
[redacted] 8 am- 8 pm (EST) Mon-Fri

Dear Customer

Thank you for choosing Advantech products and services!
The quotation number ANAQ105584 has been created upon your request. Please contact your Advantech Sales Representative if you have any questions regarding this quotation.

Quote No: ANAQ105584	Version: 1	Quote Date: 10/08/2024	Expiration Date: 11/07/2024

Sold to		Ship to	
Company:	SCS Engineers, Lancaster - Leola	Company:	SCS Engineers, Lancaster - Leola
Address:	3160 Oregon Pike Leola Pennsylvania 17540 United States Leola PA US 17540	Address:	United States
		Address2:	US
Tel:	[redacted]	Tel:	[redacted]
Attention:		Attention:	

Sales Representative: Sharon Roy-Cain (D55) Email: [redacted] **Phone No:** [redacted]

No.	Part No	Description	Order Qty.	NCNR	Unit Price	Extended Price
1	ADAM-4118-C	8-Ch Thermocouple Input Module	240	☐	[redacted]	[redacted]
2	ADAM-4117-C	8-Ch AI Module	240	☐	[redacted]	[redacted]

Shipping Method: Ex Works
Payment Method:
PO#:
Note:

Sub Total:	[redacted]
* Shipping & Handling:	[redacted]
* Tax(0.00 %):	[redacted]
Recycling Fee:	[redacted]
Total:	[redacted]

***Indicates an Estimated Value**
***All prices are in US dollars, EX Works Milpitas, CA, USA**

Prices and specifications are subject to change with the market conditions. Advantech will communicate any changes accordingly before accepting customer orders.

Advantech products that are subjected to tariffs, the pricing can be added without prior notification to cover such cost. It may or may not be removed pending on the current events with respect to the future tariffs negotiations between U.S. and China governments.

Advantech Rescheduling Policy:
1) No rescheduling can be made within 4 weeks of the ship date.
2) Notification of push out request must be given within 4-8 weeks prior to the ship date,with a maximum push out of 4 weeks.
3) Notification within 8 weeks or more must be given if the order is to be pushed out beyond 4 weeks with a maximum 8 week push out date.
4) Anything beyond 8 weeks will be rejected.
5) Rescheduling of any order is limited to 1 time per PO.

Any orders that ship to the following jurisdictions are charged sales tax: AZ, CA, CO, CT, FL, GA, IA, IL, IN, KS, KY, MA, MD, MI, MN, NC, NJ, OH, PA, TN, TX, WA, WI and VA. If you are exempt from sales tax, select the Resale box during the checkout process. Upon receiving the proper paperwork, Advantech will not include such taxes in the final invoices.

The export of any products or software purchased from Advantech must be made in accordance with all relevant laws of the United States, including and without limitation, the US Export Administration Regulations. This may require that you obtain a formal export license or make certain declarations to the United States Government regarding products to be exported, their destination or their end-use.

Please refer questions regarding the provided quotation on these terms and conditions to the indicated sales representative.

Best regards,
Advantech Corp

Instrumart

Hostetter, David

From: Dwight Mohn [redacted]
Sent: Thursday, October 10, 2024 2:58 PM
To: Sedillo, Dana
Cc: Dean, Samuel; Hostetter, David
Subject: Re: Request for Quote

Hello Dana,

Sorry for the delay and thank you for contacting Instrumart in your search for industrial equipment. As a distributor we strive to provide ideal solutions and support for a broad array of products and industries. At this time, we do not have access to this product, nor a suitable alternative. Please visit our website for future inquiries, as we are constantly adding partners to our portfolio.

Sincerely,

Dwight Mohn
Senior Applications Engineer
Instrumart® | Line Card
[redacted] (Toll-Free US/Canada)
(Phone)
(Fax)
Follow us: Instrumart Blog

---------- Forwarded message ---------
From: **Sedillo, Dana** [redacted]
Date: Tue, Oct 8, 2024 at 10:47 AM
Subject: Request for Quote
To: [redacted]
Cc: Dean, Samuel [redacted] Hostetter, David [redacted]

Hi Lindsey,

We are requesting a quote per the attached specification to source a large quantity of devices for a project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Thursday, October 10.

Thanks and let me know if you have any questions.

Thank You,

Dana Sedillo

Project Coordinator

SCS RMC

[redacted]

[redacted]

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ATTACHMENT F (COMPONENT #6) – SOLAR POWER SYSTEM

- Requests for Quotations and Vendor/Manufacturer/Distributor Quotes and Responses
    - LiTime - Batteries
    - Amazon – Batteries, charge controllers, and solar panels
    - Newpowa – Batteries, charge controllers, and solar panels
    - Battleborn Batteries – Batteries and charge controllers
    - Renogy – Charge controllers and solar panels

LiTime

From: LiTime
To: Dean, Samuel
Subject: Re:Quote Request for Large Quantity
Date: Tuesday, October 1, 2024 8:27:25 AM
Attachments: LOGO.png

Hello Dean,

Here is Kandy from customer service team.

12V 50Ah, I can provide you with [redacted] per set, and it is tax-free.
If you think the price is suitable, please provide me with your delivery address information, and I will make a proforma invoice for payment after receiving your reply. We need to pay the full amount first and then arrange the delivery.

Kandy
Online Sales & Consulting (OSC) Department
From **LiTime** (Originate from **Ampere Time**)
Website: www.litime.com
E-mail:service@litime.com

We believe the best is yet to come.
We'd love to hear from you and innovate to better power your life & discovery.

From:Dean, Samuel [redacted]
Send Time:2024年10月1日(星期二) 19:42
To:service<service@litime.com>
Cc:"Hostetter, David"[redacted]
Subject:Quote Request for Large Quantity

Hello,

I am inquiring about the availability of your LiTime 12V 50Ah Lithium battery for a quantity of 240? We are looking for pricing and lead time to source a large quantity.

Please let me know if there is a higher volume discount at this quantity and what the lead time would be.

Thank you.

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

Amazon

REQUEST SENT

LiTime 12V 50Ah Lithium LiFePO4 Bat-10/08/2024

Total items: 1 | (Quote #682e9384-30cb-4693-8194-34ec3d1b9cb8_1728399670713)

View Request Timeline

Select all	Product	Quantity	Availability	Seller	Status	Price + Shipping
	LiTime 12V 50Ah Lithium LiFePO4 Battery Built in BMS, 10 Years Lifetime 4000+ Cycles Output Power 640W, Perfect for Boat Marine Trolling motor Camping ★★★★½ ASIN: B08K7MKRF7 Condition: New	Requested Quantity: 240	**We are still waiting for offers. We will notify when new offers are provided.**			

REQUEST SENT

Victron Energy BlueSolar MPPT Solar-10/08/2024

Total items: 1 | (Quote #3418a172-54c4-40d6-9761-8b2824ccea81_1728401555310)

View Request Timeline

Select all	Product	Quantity	Availability	Seller	Status	Price + Shipping
	Victron Energy BlueSolar MPPT Solar Charge Controller - Charge Controllers for Solar Panels - 75V, 10 amp, 12/24-Volt ★★★★½ ASIN: B018M88G5C Condition: New	Requested Quantity: 240	**We are still waiting for offers. We will notify when new offers are provided.**			

Roll over image to zoom in

100 Watt Solar Panel 2Pcs 12V/24V High-Efficiency Monocrystalline Solar Panel, 12BB Solar Cells, for Home RV Marine Farm Battery and Other Off-Grid Applications

Visit the WERCHTAY Store

3.5 ★★★½☆ 21 ratings | Search this page

List Price: [redacted]

Quantity Price

You Save: [redacted]

Buy more, save more

5 units	10 units Lowest price
[redacted]	

Coupon: [redacted] Shop items › | Terms

Brand	WERCHTAY
Material	Monocrystalline Silicon
Product Dimensions	18.11"L x 1.18"W x 39.76"H
Item Weight	13 Pounds
Efficiency	24% Conversion

About this item

[redacted]

FREE Returns

FREE delivery for Prime members

Deliver to Business - Anaheim 92804

In Stock

Quantity: 120

Quantity unavailable from a single seller. Buy from multiple sellers.

Buying in bulk?

Add to Cart

Buy Now

Qty per pack: 2 Count

Total qty: 240 Count

[redacted]

Secure transaction

Sold by WERCHTAY US and Fulfilled by Amazon.

Return policy:

30-day refund/replacement

Newpowa

Hostetter, David

From: Maribel Rivera - Newpowa [redacted]
Sent: Thursday, October 10, 2024 4:17 PM
To: Dean, Samuel; Sedillo, Dana
Cc: Hostetter, David
Subject: RE: Product question response
Attachments: NPA120S-24I.pdf; NPA-MT1550EU.PDF; BB5024 Datasheet.pdf; NQT0136.pdf

MY APOLOGIES, I missed adding spec sheets for all the quoted specs in my previous email.

Best regards,

Maribel Rivera

Operations Manager

Newpowa
BE WISE GO SOLAR

Newpowa (America) Inc.

Phone: [redacted] | **Direct Cell:** [redacted]

Address: 3633 Inland Empire Blvd, Ste 600. Ontario CA 91764

Web: www.newpowa.com

Facebook | **Google** | **Instagram** | **Youtube**

From: Maribel Rivera - Newpowa
Sent: Thursday, October 10, 2024 1:12 PM
To: Dean, Samuel [redacted] Sedillo, Dana [redacted]
Cc: Hostetter, David [redacted]
Subject: RE: Product question response
Importance: High

Good afternoon,
Find quote attached.

Best regards,

Maribel Rivera

Operations Manager

Newpowa (America) Inc.

Phone: [redacted] | **Direct Cell:** [redacted]

Address: 3633 Inland Empire Blvd, Ste 600. Ontario CA 91764

Web: www.newpowa.com

Facebook | **Google** | **Instagram** | **Youtube**

From: Dean, Samuel [redacted]
Sent: Wednesday, October 9, 2024 12:18 PM
To: Maribel Rivera - Newpowa [redacted] Sedillo, Dana [redacted]
Cc: Hostetter, David [redacted]
Subject: RE: Product question response

Hi Maribel,

The shipping cost does not need to be included on your quote.

Sam Dean
Senior Project Manager
SCS RMC
[redacted]

www.scsengineers.com

From: Maribel Rivera - Newpowa [redacted]
Sent: Wednesday, October 9, 2024 2:08 PM
To: Sedillo, Dana [redacted]
Cc: Dean, Samuel [redacted] Hostetter, David [redacted]
Subject: RE: Product question response

Thanks Dana for your quick response and clarification.

Can you confirm one last thing, will freight be required to list on the quote, or will shipment be handled by SCS directly? If you need freight included, can you please confirm the complete delivery address.

Best regards,

Maribel Rivera

Operations Manager

Newpowa (America) Inc.

Phone: [redacted] | **Direct Cell:** [redacted]

Address: 3633 Inland Empire Blvd, Ste 600. Ontario CA 91764

Web: www.newpowa.com

Facebook | **Google** | **Instagram** | **Youtube**

From: Sedillo, Dana [redacted]
Sent: Wednesday, October 9, 2024 10:43 AM
To: Maribel Rivera - Newpowa [redacted]
Cc: Dean, Samuel [redacted] Hostetter, David [redacted]
Subject: FW: Product question response

Hi Maribel,

See our response below.

Thank You,

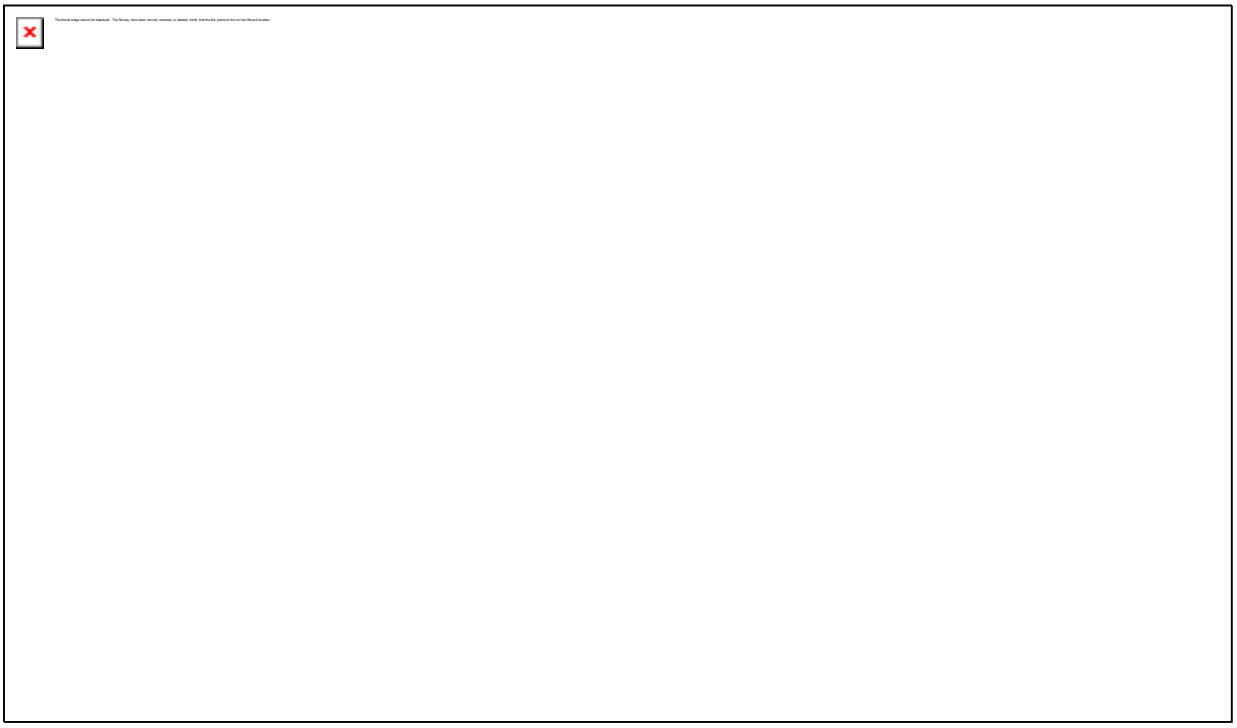
Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

Driven by Client Success
www.scsengineers.com

From: Maribel Rivera - Newpowa [redacted]
Sent: Wednesday, October 9, 2024 9:57 AM
To: Sedillo, Dana [redacted] Hostetter, David [redacted]
Subject: FW: Product question response

Good morning,
In regards to your request, we have a few questions before we can send you our quote:

- We are unable to supply batteries - the battery below is what we need- pulled from your site.



- The largest charge controller we have available is our 60A controller (specs attached for your reference) – To clarify, the spec is for a Victron 75/10 charge controller or equivalent which is 15amp load/ 10amp charge rating

- We do not carry a 100W/24V unit, however we do carry a 120W/24V. This unit does not have UL rating. Can we still quote this for you? yes

Best regards,

Maribel Rivera

Operations Manager

Newpowa (America) Inc.

Phone: [redacted] | **Direct Cell:** [redacted]

Address: 3633 Inland Empire Blvd, Ste 600. Ontario CA 91764

Web: www.newpowa.com

Facebook | **Google** | **Instagram** | **Youtube**

From: Lenette Ramirez - Newpowa [redacted]
Sent: Wednesday, October 9, 2024 9:50 AM
To: Maribel Rivera - Newpowa [redacted]
Subject: Fw: Product question response

Best Regards,
Lenette Ramirez

Newpowa America

1815 Rustin Ave, Riverside CA 92507

Office: [redacted] |

www.newpowa.com

From: Sedillo, Dana [redacted]
Sent: Wednesday, October 9, 2024 9:44 AM
To: Lenette Ramirez - Newpowa [redacted]
Cc: Dean, Samuel [redacted] Hostetter, David [redacted]
Subject: RE: Product question response

Please see the attached

We are requesting a quote per the attached specification to source a large quantity of devices for a potential project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Thursday, October 10.

Thanks and let me know if you have any questions.

Thank You,

Dana Sedillo

Project Coordinator

SCS RMC

[redacted]

[redacted]

Driven by Client Success

www.scsengineers.com

From: Lenette Ramirez - Newpowa [redacted]
Sent: Wednesday, October 9, 2024 9:27 AM
To: Sedillo, Dana [redacted]
Subject: Product question response

Good afternoon,

We are unable to open the attachment you added. Can you please resend in correct pdf format, or simply type your request sku and quantities for a quote.

Regards

Newpowa team

Best Regards,

Lenette Ramirez

Newpowa America

1815 Rustin Ave, Riverside CA 92507

Office: [redacted] |

www.newpowa.com

Newpowa

3633 Inland Empire Blvd
Suite 600
Ontario, CA 91764

Estimate

Date	Estimate #
10/10/2024	NQT0136

Name / Address
SCS ENGINEERS

Project

Item	Description	Qty	Rate	Total
NPA120S-24I	Newpowa 120w/24V Monocrystalline solar panel 9BB * NOT UL LISTED *	240	[redacted]	[redacted]
NPA-MT1550EU	NewPowa ADVANCED MPPT 15A 12V/24V BATTERY REGULATOR WITH LCD DISPLAY UP TO 200W (gray w/LCD) * NOT UL LISTED*	240	[redacted]	[redacted]
MISC	BB5024 (SHIPS DIRECTLY FROM BATTLE BORN BATTERY) (CERTIFICATIONS PENDING) TERMS: PREPAY LEAD TIME: ALL UNITS GOOD IN STOCK FOB RIVERSIDE CA (EXCEPT FOR BATTERY, WHICH SHIPS FROM DIRECT SUPPLIER. SHIPPING INCLUDED FOR THE BATTERY)	240	[redacted]	[redacted]

	Total	[redacted]

Phone #	E-mail	Web Site
[redacted]	[redacted]	www.newpowa.com

Newpowa
BE WISE GO SOLAR

NPA120S-24I

Monocrystalline Module

60 Cell
Monocrystalline Module

120W
Power Output

21.3%
Maximum Efficiency

9BB Cell Technology

- 21.3% max efficiency with 9BB Multibusbar technology enabling maximum BOS savings
- Multibusbar M6 Mono Half-Cell uplifted with PERC technology to guarantee higher output power and maximum module efficiency

Extreme Weather Simulation

- Withstood 1.375" diameter hailstones falling at terminal velocity
- Rugged design with hail/snow tolerance up to 5400 Pa positive load and high wind tolerance up to 2400 Pa negative load

Efficient Sorting Process

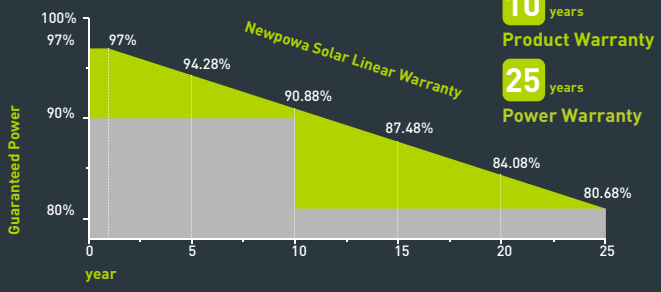
- Identify and mitigate against damaged/color-deviating/chipped cells
- Standardized cell efficiency testing to ensure optimal PV output

Highly Reliable

- Robust encapsulation and diffusion barriers provide long term protection against PID damage
- Adaptability to temperatures below 0°F to 149°F

Positive mechanical load	>5400Pa
Positive Power Tolerance	0~+5W
Warranty	25-year Linear Power Warranty

Performance Warranty



10 years
Product Warranty

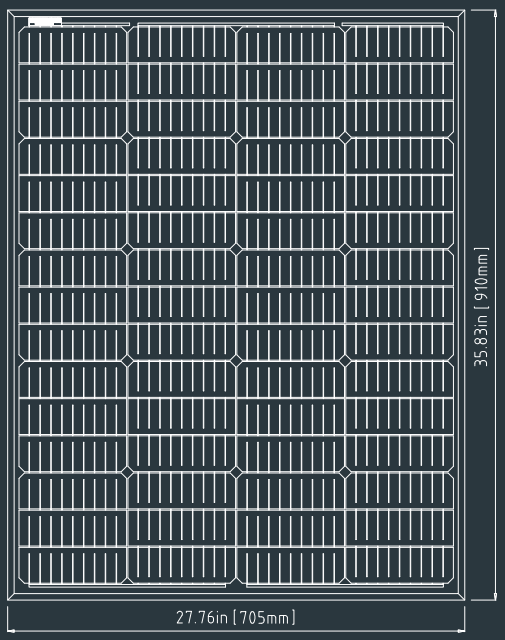
25 years
Power Warranty

Newpowa
BE WISE GO SOLAR

ELECTRICAL CHARACTERISTICS

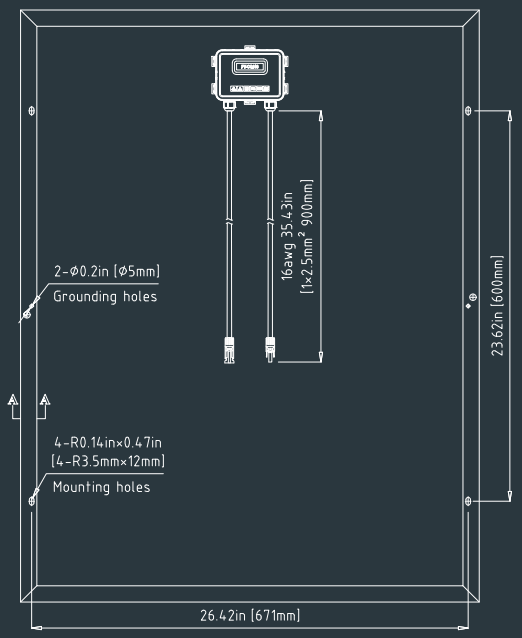
Type	NPA120S-24I
Power Output(W)	120W
Voltage MPP Vmp(V)	34.74V
Current MPP Imp(A)	3.47A
Voltage Open Circuit Voc(V)	40.07V
Short Circuit Current Isc(A)	3.66A
Temperature Coefficient Of Voc	-(80±10)mV/°C
Temperature Coefficient Of Isc	(0.065±0.015)%/°C
Temperature Coefficient Of Power	-(0.5±0.05)%/°C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C

STC: 1000W/m² Irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3

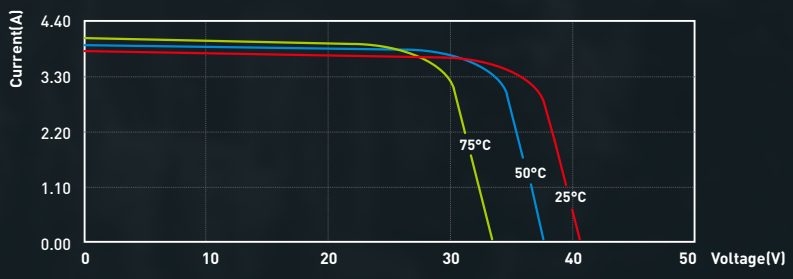


MECHANICAL CHARACTERISTICS

Cells	Monocrystalline Silicon
Solar Cells Grade	Class A High Efficiency
Module Dimension(in./mm)	35.83[910]x27.76[705]x1.18[30]
Weight(lbs/kg)	16.03[7.27]
Packing Information(in./mm)	37.40[950]x29.33[745]x1.38[35]/(1pc/ctn)



I-V CURVES (Irradiance: AM1.5, 1kw/m²)



**Specifications subject to technical changes and tests.*
NEWPOWA reserves the right of nal interpretation.

702-628-7600 sales@newpowa.com www.newpowa.com 3633 Inland Empire Blvd, Ste 600, Ontario, CA 91764

Newpowa
BE WISE GO SOLAR

MT1550EU

Charge Controller

- **Innovative Max Power Point Tracking(MPPT) technology, tracking efficiency >99.9%**
- **Full digital technology, high charge conversion efficiency up to 98%**
- **LCD display design, read operating data and workingcondition easily**
- **12/24V system voltage**
- **AGM, Liquid and GEL battery for selection**
- **External temperature sensor**
- **Four stages charge way: MPPT, boost, equalization,float**
- **With current-limiting charging mode**

SPECIFICATIONS

Type	MT1550EU
System voltage	12V
Max solar/Load current	15A
Boost voltage	14.5V (25°C)
Equalization voltage	14.8V (25°C)
Float voltage	13.7V (25°C)
Overcharge protect	15.5V
Max volt on Bat. terminal	20V
Day/Night threshold	8.0V
Battery type	AGM, Liquid and GEL
Temperature compensation	-4.17mV/K per cell (boost,equalization), -3.33mV/K per cell (float)
Max volt on PV(-20°C)	35V
Max volt on PV(-25°C)	30V
Max input power	200W
Dimensions [in/mm]	7.44[189] x 3.78[96] x 2.09[53]
Weight [lbs/g]	0.93[420]
Self-consumption	7mA
Ambient temperature	-20 ~ +55°C

702-628-7600 sales@newpowa.com www.newpowa.com 3633 Inland Empire Blvd, Ste 600, Ontario, CA 91764

Model BB5024

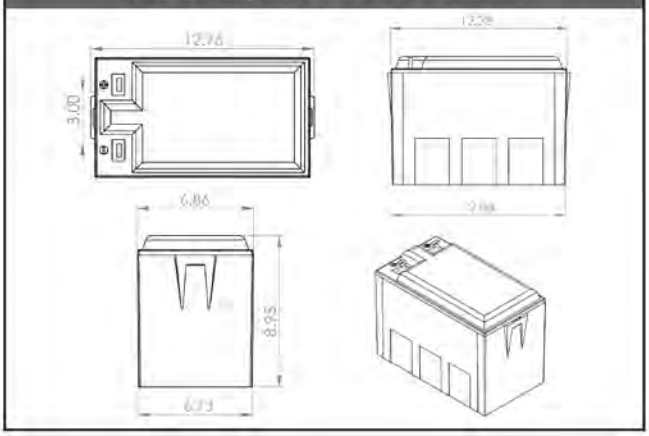
50AH 24V
LiFePO4 Deep Cycle Battery
Data sheet

Electrical Specification	
Voltage	24V
Capacity	50AH
Operating Temperature	- 4°F (-20°C) to 135°F (57.2°C)
Efficiency	99%
Self Discharge	2-3% per month
Maximum Series Voltage	48V
Cycles	3K-5K
Built-in BMS	Internal
Resistance	25 mΩ
Usable DoD	100%

Discharging Specification	
Max Discharge Current	50A
Peak Discharge Current	100A for 30 Seconds
Surge for Loads over 500A	.5 Seconds
Recommended LVD	21V
BMS Discharge Voltage Cut-Off	20V
Reconnect Voltage	20V
Short Circuit Protection	Yes

Recognized Specification	
Certifications	Pending
Shipping Class	UN3480, Class 9

Drawing Specification



Charging Specification	
Recommended Charge Current	.5c
Max Charge Current	25A
Absorption Voltage	28.4V-29.2V
Float Voltage	26.8V-27.6V
Equalization Voltage (if applicable)	28.8V
Absorption Time	15 Minutes per 50AH battery bank
BMS Charge Current Cut-Off	.5C Recommended
Recharge/Rebulk Voltage	26.6V
BMS Cell Balancing Voltage Range	28.4V-29.2V
High BMS Voltage Protection	29.4VDC
Temperature Compensation	No/Disable

Mechanical Specification	
Dimensions	12.76"L X 6.86"W X 8.95"H
Weight	31 lbs.
Terminal Type	.25" Brass
Terminal Hole	3/8" hole and 3/8" or 5/16" hardware is suggested
Terminal Torque	9-11 Ft-lb.
Case Material	ABS Fire Rated
Cell Type - Electrolyte	LiFeP04
Sealed and Water Resistant Case	Non-Submersible

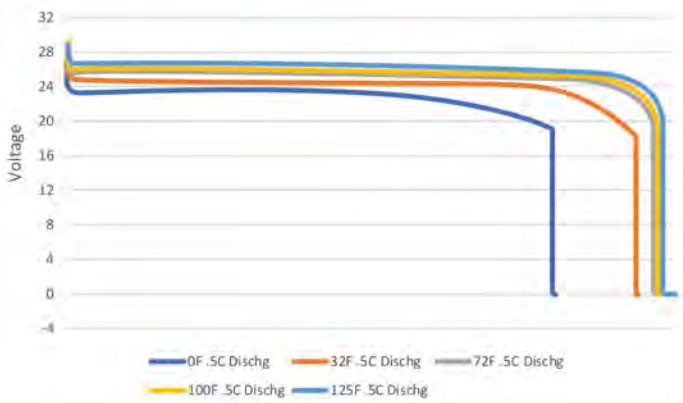
Temperature Specification	
Discharge Temperature	-4°F to 135°F (-20°C to 57.2°C)
Charge Temperature	25°F - 135°F
Storage Temperature	-10°F to 140°F (-23°C to 60°C)
BMS High Temperature Cut-Off	>135°F
BMS Reconnect Temperature	<135°F

Model BB5024

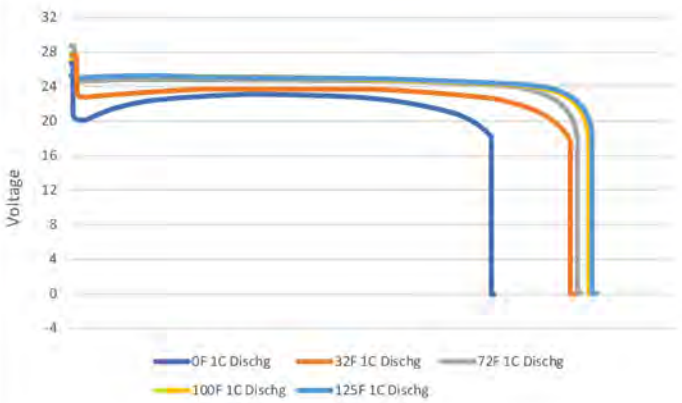
50AH 24V
LiFePO4 Deep Cycle Battery
Data sheet

Performed Operation Data

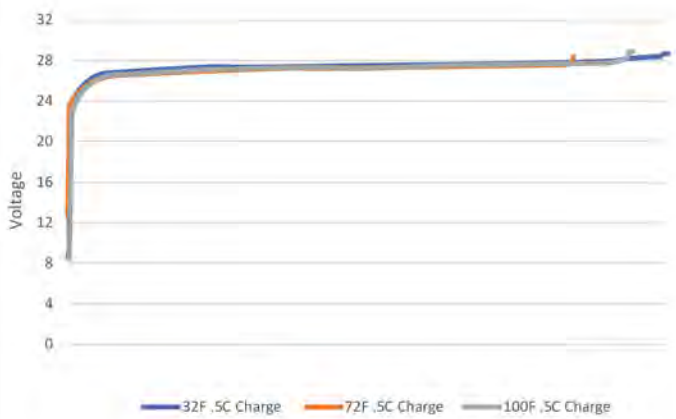
.5C Discharge with Temperature Variations



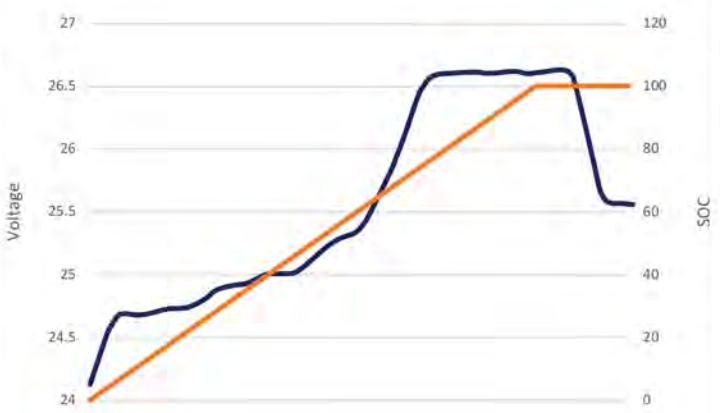
1C Discharge Voltage with Temperature Variations



.5C State of Charge with Temperature Variations



Standard Charge Curve with 3 Stage Charger



*Note: The storage temperature range is -10°F to 140°F (-23°C to 60°C). We recommend bringing the Battle Born Batteries to a 100% charge and then disconnecting them completely for storage. After six months in storage, your batteries will remain 75 – 80% charged.

Storing batteries in subzero weather (-15°F or more) has the potential to crack the ABS plastic and more importantly could cause a faster loss of capacity, in some cases drastically more than the typical 2 – 4% per month loss.

Battleborn Batteries

Hostetter, David

From: Jacob Mariani [redacted]
Sent: Thursday, October 10, 2024 11:32 AM
To: Sedillo, Dana
Cc: Dean, Samuel; Hostetter, David
Subject: RE: Request for Quote
Attachments: SCS Engineers - Project Proposal - Revised Pricing - 10-10-24.pdf

Good Morning Dana,

Please see the attached document for revised pricing per the proposal I had sent yesterday.

Cost of shipping would be covered by us for this order if SCS would like to proceed with this order.

Please let me know if you have any questions.

Best regards,
Jacob

Jacob Mariani
Business Development Associate

dragonfly ENERGY

P [redacted]
[redacted]
dragonflyenergy.com
1190 Trademark Dr. #108
Reno, Nevada 89521

From: Sedillo, Dana [redacted]
Sent: Wednesday, October 9, 2024 9:22 AM
To: Jacob Mariani [redacted]
Cc: Dean, Samuel [redacted] Hostetter, David [redacted]
Subject: Request for Quote

Hi Jacob,

We are requesting a quote per the attached specification to source a large quantity of devices for a potential project. The items in the attached previous quote will work, however, the battery does *not* need to be low temp.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Thursday, October 10.

Thanks and let me know if you have any questions.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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www.scsengineers.com

Dragonfly Energy Corp
Dragonfly Energy
1190 Trademark Drive
Suite #108
Reno NV 89521
United States

Quote

#QUO26708

10/9/2024

Bill To

Ship To

TOTAL

[redacted]

Expires: 11/8/2024

Expires	Exp. Close	Sales Rep	Shipping Method
11/8/2024	10/9/2024	Jacob Mariani	[redacted]

Quantity	Item	Tax	Rate	Amount
240	**BB5024 Battle Born 24V 50Ah**	Yes	[redacted]	[redacted]
240	**SCC075010060R SmartSolar MPPT 75/10 Charge Controller with Bluetooth**	Yes	[redacted]	[redacted]

Subtotal	[redacted]
Estimated Shipping Cost	[redacted]
Discount Total	
Tax Total (0%)	[redacted]
Total	[redacted]

Comments or Special Instructions:

QUO26708

Renogy

Dean, Samuel

From: Sales Support [redacted]
Sent: Tuesday, October 8, 2024 6:36 PM
To: Sedillo, Dana
Cc: Dean, Samuel; Hostetter, David
Subject: RE: Request for Quote

Hi Dana,

We regret to inform you that our controller does not meet the requirements you listed on the file that you sent.

Best regards
Julian

From: Sedillo, Dana [redacted]
Sent: Tuesday, October 8, 2024 9:00 AM
To: Sales Support [redacted]
Cc: Dean, Samuel [redacted] Hostetter, David [redacted]
Subject: Request for Quote

Hello,

We are requesting a quote per the attached specification to source a large quantity of devices for a project.

Please note that this is a time sensitive project so the lead time is critical for us to evaluate. We are requesting equipment selections, quotes, and lead times by 12PM ET, Thursday, October 10.

Thanks and let me know if you have any questions.

Thank You,

Dana Sedillo
Project Coordinator
SCS RMC
[redacted]

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