



REMOTE TERMINAL UNIT (RTU) 1200 BACKPLANE ASSEMBLY SPECIFICATION INFORMATION

PURPOSE: JEA (Jacksonville, FL) is seeking an electrical controls manufacturer to assemble 33 remote terminal units (RTU) 1200 backplane panels and 16 Pony pump RTU backplane panels for the SCADA system used in our lift stations.

Date:	<i>May 16, 2022</i>
Location Name:	<i>Lift stations</i>
Address:	<i>Various</i>

DESIGN BASIS AND SYSTEM SIZING: Refer to drawings in Appendix D of this Solicitation

QUOTES: Quotes are due to JEA within ten (10) business days of issuance unless otherwise noted. At a minimum, all manufactures shall quote unit prices, F.O.B. destination, and information for the purchase and delivery of the complete assembled 33 remote terminal units (RTU) 1200 backplane panels and 16 Pony pump RTU backplane panels.

Manufacturers must include product details with the quote, including but not limited to material of construction, general dimensions, and warranty information. Any deviations from the specification provided shall be fully identified and described in the quote.

RESERVED RIGHTS: JEA reserves the right to accept or reject any and/or all quotes, to waive irregularities and technicalities, and to request resubmission of quotes. JEA also reserves the right to accept all or any part of the quote and to increase or decrease quantities to meet additional or reduced requirements of JEA.

WARRANTY: The assembled backplane panels and all components shall carry a 3-year "Full Replacement Warranty" that shall begin once the unit has been installed and is meeting all performance requirements.

PART 1 - GENERAL

1.1 SCOPE

The work specified shall include:

- Assemble 33 RTU backplanes using the Appendix A – As-Built
- Assemble 16 Pony pump RTU backplanes using the attached: Appendix A – Drawings
- JEA will provide the parts listed in the attached file: Appendix A - JEA Supplied Parts

Panels must be complete no later than September 15, 2022.

- A. The work specified shall include furnishing all labor, design, materials, equipment, incidentals and testing of all equipment and materials necessary to provide JEA with 33 assembled remote terminal units (RTU) 1200 backplane panels and 16 assembled Pony pump RTU backplane panels.
- B. All materials, products, or devices shall be new and unused, unless indicated otherwise in proposal.

1.2 APPROVED MANUFACTURERS

- A. The electrical controls manufacturer shall be experienced in the design, construction and successful assembly of remote terminal unit (RTU) backplane panels.
- B. JEA shall supply the parts listed in Appendix D of this Solicitation.
- C. Equipment not supplied by JEA shall be furnished by the selected manufacturer.
- D. In accordance with JEA's overall specifications for SCADA equipment, qualified panel manufacturers shall:
 - a. Provide shop UL Certification for all control panels prior to JEA site delivery.
 - b. Assemble the RTU backplane panels in accordance with JEA Standards for specifications and requirements as described in the drawings supplied in Appendix D.
- E. The electrical control panel shall only be manufactured by a JEA approved manufacturer as listed below:

	Company Name	Contact	Phone	Email
1	ECS, LLC	Ralph Sinn	904-367-5000	ralph@ecs31.com
2	EG Pump Controls, Inc. dba EG Controls, Inc.	Dale Young	904-292-0110	EGSales@egcontrols.com
3	Suncoast Hydraulics, Inc. dba Suncoast Controls Mfg.	Brendan Dinkelmeyer	904-693-3318	bdinkelmeyer@suncoastcontrols.biz
4	Sun State Systems, Inc.	Tony Rhodes	904-269-2544	trhodes@sunstatesystems.com
5	Infamation Technologies, LLC	James Ruiz	904-425-4760	jruiz@itgtec.com
6	DSI Innovations LLC	Sean Patterson	336-893-8385	spatterson@dsiinnovations.com
7	Dynamic Motor Controls, Inc.	Brian Dail	904-693-3318	bdail@dynamicmotorcontrols.com

F. If an electrical controls manufacturer is not a pre-approved manufacturer and would like to be included in the above list, prior to bidding on any work, at a minimum the manufacturer shall:

1. Submit via email to waterwastewater@jea.com a cover letter including name of manufacturer, brief history, contact information and manufacturer's website.
2. References in Florida (including JEA, if applicable) with contact names and numbers.
3. The Authorized Control Panel Manufacturing Facility shall be located in the JEA service area. The address of where the panels will be manufactured shall be provided.
4. The Authorized Control Panel Manufacturing Facility shall provide UL508A documentation showing that they are a qualified UL508A shop.
5. The Authorized Control Panel Manufacturing Facility shall have in-house quality control programs, testing capability to fully test and certify each control panel. An example of a current test procedure shall be provided.
6. The Authorized Control Panel Manufacturing Facility shall provide a resume with names and experience of the people meeting the requirements below:
 - a. The Authorized Control Panel Manufacturing Facility shall be regularly engaged in the manufacturing of Municipal and Industrial Control Panels and shall have no less than 10 years of staff experience in the Wastewater Controls Market which will insure professional products being produced and knowledgeable maintenance and service being offered.

- b. The Authorized Control Panel Manufacturing Facility shall have manufacturer trained staff knowledgeable in all products related to the components in the JEA standard panels including Programmable Controllers, Programming Software, Control, Circuit Protection and Variable Frequency Drives.
- c. In the event that a panel needs to be worked on in the field, the Authorized Control Panel Manufacturing Facility must be either JEA Level "A" Safety Qualified or contract one of the JEA Level "A" qualified contractors. The Authorized Control Panel Manufacturing Facility shall provide at least one of the two options below: Contact JEA Safety & Health Services Department if you need assistance.
 - i. Provide evidence that the Authorized Control Panel Manufacturing Facility is JEA Safety Qualified Level "A".
 - ii. Provide the names and contact information of the JEA Safety Qualified Level "A" contractors that will be used in the event field work is required.

7. JEA reserves the right to request additional information.

1.3 SUBMITTALS FOR APPARENT LOW BIDDER

- A. Upon notice from JEA, shop drawings and literature describing the equipment shall be submitted to JEA for evaluation and approval. Fabrication of RTU backplanes shall not begin until JEA has given written approval and notice to proceed. If the selected manufacturer's equipment layout, configuration, and/or wiring requires changes from the bid documents, it is the responsibility of the manufacturer to clearly submit all proposed changes in the submittals at no additional cost to JEA.
- B. The following items may be requested by JEA prior to approval to proceed:
 - 1. Submittals shall include details of construction, materials of construction, model numbers, dimensions, process and instrumentation diagrams (wiring and interconnection diagram), electrical schematics, system layout drawings/schematics, and any other pertinent information that may be required for a successful RTU backplane system.
 - 2. Manufacturer shall furnish a list of recommended spare parts for each piece of equipment in the scope of supply.
- C. Manufacturer is required to submit the following items.

1. Submit certification indicating the quality control, and inspection has been completed and standards specified herein have been met prior to shipment to the jobsite.
 2. Manufacturer shall furnish one (1) printed copy of the drawings and an electronic copy of each style of backplane assembled.
 3. Submit the performance guarantee and warranty for the system.
- D. Upon notice from JEA, requested submittals must be submitted within twenty (20) calendar days. All exceptions and/or deviations shall be fully identified and described. Should there be any discrepancy between the manufacturer submittals and this document, this document shall take precedent over the manufacturer's documents.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Assemble 33 RTU backplanes using Appendix A – As-Builts
- B. Assemble 16 Pony pump RTU backplanes using Appendix A – Drawings
- C. JEA will provide the parts listed in Appendix A - JEA Supplied Parts.

PART 3 – EXECUTION

3.1 SHIPPING, STORAGE AND HANDLING

- A. Equipment shall be inspected for damage prior to unloading. Manufacturer shall be notified immediately upon notice of damage. Any damaged equipment shall be promptly replaced at no cost to JEA.
- B. Product delivery, storage, and handling shall comply with Manufacturer's instructions and as follows:
 1. All panels will be palletized for delivery and shipped to the following addresses:

Quantity	District	Address
5 Pony Pump 10 Regular	District 2 North Grid	Cedar Bay WRF 1840 Cedar Bay Road Jacksonville, FL 32218

2 Pony Pump 7 Regular	District 3 West Grid	Southwest WRF 5420 118 th Street Jacksonville, FL 32244
1 Pony Pump 9 Regular	District 4 East Grid	Arlington East WRF 1555 Millcoie Road Jacksonville, FL 32225
7 Pony Pump 3 Regular	District 5 South Grid	Mandarin WRF 10828 Hampton Road Jacksonville, FL 32257
1 Pony Pump 4 Regular	District 8 St. Johns Grid	Blacks Ford WRF 5145-2 Longleaf Pine Pkwy St. Johns, FL 32259

2. All parts shall be properly protected so that no damage or deterioration will occur in transit or during prolonged storage at the site.
3. All openings in equipment shall be protected against entry of foreign objects.
4. Each box, crate, and package shall be properly marked to show its contents and net weight.

- C. Contact Troy Simmons (904) 545-8321 to coordinate specific delivery time and location to ensure that someone is available to assist with offloading equipment prior to delivery.

3.2 INSTALLATION

- A. JEA personnel will install the assembled units.

3.3 MANUFACTURER SERVICES

- A. The manufacturer shall provide the services of a qualified service technician to assist in the event of problems are discovered during installation at no cost to JEA.
- B. The startup and testing shall meet the performance guarantees described under performance requirements listed herein. All equipment shall show evidence of mechanical soundness when being tested.

3.4 PERFORMANCE TEST

- A. The performance test shall be conducted at the time of installation by JEA personnel.

- B. Should the system performance not meet any of the above requirements, that system shall have failed the performance test. The manufacturer shall make any additions or modifications to the system as may be necessary, at no additional cost to JEA, and the performance tests for that system shall be repeated in its entirety.

3.5 WARRANTY

The assembled backplane panels and all components shall carry a 3-year "Full Replacement Warranty" that shall begin once the unit has been installed and is meeting all performance requirements. Manufacturer shall modify or replace any equipment (not originally supplied by JEA) that fails to perform as specified, at no additional cost to JEA.

- END OF SECTION -