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Stephanie Southerland
City Clerk
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Finance Director



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P.O. Box 552 • Alexander City • Alabama 35011-0552 • (256) 329-6700
www.alexandercityal.gov

BID 23-13
ALEXANDER CITY, ALABAMA
T.C. RUSSELL AIRPORT
REPLACE PRECISION APPROACH PATH INDICATORS (PAPI)

The City of Alexander City, Alabama, is requesting proposals for the precision approach path indicators (PAPI) light replacement project located at the TC Russell Airport, Alexander City, AL, per the attached specifications. A full copy of the bid and all addendums may be obtained at [<https://alexandercityal.gov/rfps>]. Proposals must be submitted in writing to the Alexander City Clerk's office no later than April 25th, 2023. All proposals bid number and opening date on the outside of the envelope. Proposals must be mailed or hand delivered to the address below. No proposals will be allowed to be submitted via fax or email.

Pre-Qualifications: All proposals of \$50,000.00 and more must be submitted by a general contractor who is licensed in the State of Alabama or state of reciprocity.

ADDRESS ALL RETURN ENVELOPES TO: CITY OF ALEXANDER CITY
CITY CLERK'S OFFICE
281 JAMES D NABORS DR
ALEXANDER CITY, ALABAMA 35010

BID SOLICITATION SCHEDULE

Public Notice of Bid:	April 5 th , 2023
Question Submission Deadline:	April 18 th , 2023, 5:00pm CST
Bid Due Date:	April 25 th , 2023 2:30pm CST
Evaluation Period:	April 25 th – 30 th , 2023
Anticipated Award Date:	May 1 st , 2023

Contract Terms and Conditions

The City of Alexander City will publicly open and read aloud all bids on the date and time listed above. Bids are to be opened by the City Clerk at City Hall located at 281 James D Nabors Dr, Alexander City, Alabama. Bidders and authorized representatives are invited to be present at any bid opening.

Bids shall not be modified after the opening. Prices and notations should be in ink or typewritten on the form provided by the owner. All bid prices must be fully extended. Bids must conform to any attached detailed specifications to be eligible for consideration.

.The start date of the contract shall begin on the date of the bid approval by the awarding authority. The anticipated award date for this contract is May 1st, 2023.

Pricing for all proposed contract services shall be firm for the full length of the project.

All Federal, State, and Local License and Fee requirements will be applicable.

Freight charges and fees are to be included in the bid

All prices and percentages must be firm for the full term of the contract.

Contractor must grant the City of Alexander City a 30-day net payment terms without penalty.

The City of Alexander City prefers contractors that provide a sole source responsibility for all products and services provided under a resulting contract. If the proposer requires the use of a third-party dealer, reseller or subcontractors to provide products or services, the proposer shall list the third party to be used and address how the products or services will be delivered.

No sales taxes of any kind are to be included in the bid prices. The City of Alexander City will furnish tax exemption certificates when necessary.

In accordance with the State of Alabama Law, a 3% variance consideration may be given to those vendors located within the City of Alexander City, City Limits and Police Jurisdiction.

Bidders must be enrolled and in full compliance with the E-Verify Program and all requirements of Alabama Immigration law, Act 2011-535 (also referred to as the “Beason-Hammon Alabama Taxpayer and Citizen Protection Act”, or H.B. 658), as amended by Act No. 2012-491, including in part and effective January 1, 2012.

Proposers shall state if an indemnity clause will be required of the City by the successful bidder. Proposers shall include a sample of any indemnity clause which may be required to be signed. Type of indemnity may be justification for rejection of the proposal.

The City of Alexander City requires that the trade reference form (attached) be completed.

By Section 41-16-5, Code of Alabama 1975, with the submittal of a bid, the prospective vendor represents and agrees that it is not currently engaged in, nor will it engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

If the vendor employs any persons in the State of Alabama, in accordance with Section 31-13-9, Code of Alabama 1975, Proposers shall demonstrate proof of enrollment in the E-verify program by completing the enclosed E-verify affidavit, or providing some other proof of enrollment. If the proposer employs persons (anywhere), the award of the bid is condition on the bidder not knowingly employing, hiring for employment or continuing to employ an unauthorized alien within the State of Alabama. Upon awarding of the contract where a written contract is to be signed, the contract will contain a provision whereby the bidder promises not to violate Federal Immigration Law.

Questions and Communications Regarding this Bid

All communications must be in writing, sent by email to Jackson Hatton, Airport Manager [Jackson.hatton@alexandercityal.gov], Miles Hamlett, Purchasing Director [miles.hamlett@alexandercityal.gov], and Stephanie Southerland, Alexander City Clerk [stephanie.southerland@alexandercityal.gov]. The subject line of the email must include Bid 23-13. All questions must be received no later than April 18th, 2023 5:00pm CST.

A running response to all vendors' questions will be provided as an addendum. The addendum can be found on the City's website at [<https://alexandercityal.gov/rfps>].

Evaluation

The award will be made to the Bidder whose proposal conforms to all conditions and requirements within the specifications of this bid. In addition, the City of Alexander City reserves the right to consider the following during the evaluation period:

- (a) Award bids by Lump Sum or individual items unless otherwise noted by bidder. NOTE: No purchase will be made on Lump Sum awards until individual unit prices are furnished.
- (b) Award the bid to the lowest or best bidder, as determined by the Owner to be in the best interest of The City of Alexander City. Life cycle/maintenance costs will be taken into consideration.
- (c) Reject any or all bids and to waive technicalities when in the opinion of the City of Alexander City the best interest of The City of Alexander City will be served.
- (d) Make null and void the purchase order with the successful bidder if delivery cannot be made at the specified time.
- (e) In accordance with the State of Alabama Law, a 3% variance consideration may be given to those vendors located within the City of Alexander City, City Limits and Police Jurisdiction.
- (f) Ability to deliver goods and services in a timely manner.
- (g) Warranty
- (h) Suitability for use by the owner.

BID 23-13
ALEXANDER CITY, ALABAMA
T.C. RUSSELL AIRPORT
REPLACE PRECISION APPROACH PATH INDICATORS (PAPI)

Proposer (Vendor or Contractor) Name: _____
Representative: _____
Address: _____
City: _____
State, Zip Code: _____
Phone: _____
Email: _____

Total Proposal Amount \$ _____

Bid Bond or Cashier's Check included Y or N _____ (All bids of \$50,000.00 or more must include a bid bond or cashiers check drafted by an Alabama bank in the amount equal to 10% of the bid price but not to exceed \$10,000.00.)

E-verify Affidavit Complete Y or N _____ / Proof of E-verify Enrollment Included Y or N _____

Trade References Provided Y or N _____
(If you are a new Vendor for Alexander City, please fill out the trade reference form.)

Proof of General Liability Insurance Included Y or N _____
(\$1,000,000.00 Minimum)

Will be able to make delivery and installation within _____ days of receipt of order.

Do all items bid meet or exceed the required specifications? ____ Y/N If no, please highlight and provide documentation detailing the reason for the deviation from the specifications.

Non-Collusion Statement: By signing this bid form the bidder certifies that this bid is made without reference to any other bid and without any agreement, understanding, collusion or combination with any other person(s) in reference to the bid.

Signature of Bidder Representative: _____

Date Signed: _____

STATE OF:

COUNTY OF:

AFFIDAVIT

Before me, the undersigned authority, personally appeared _____ (affiant) who, being by me first duly sworn, doth depose and say as follows:

I _____ (name), on behalf of _____ (business entity), and with lawful authority to act in its behalf, attest to the following from personal knowledge:

1. _____ (business entity) does not knowingly, hire for employment, or continue to employ any unauthorized aliens in the State of Alabama; and
2. _____ (business entity) is enrolled in the E-Verify Program as shown by the attached documentation; and
3. _____ (business entity) does and will utilize E-Verify Program to verify the employment status of employees and potential employees according to federal rules and regulations; and
4. _____ (business entity) shall acquire from its subcontractors notarized affidavits that they will not knowingly employ, hire for employment or continue to employ unauthorized aliens, that they will enroll in the E-Verify Program before performing any contract work or providing any product, and that they shall attach to the affidavits, documentation establishing their enrollment in E-Verify as required by Act No. 2011-535.

Signature of Affiant

I, the undersigned Notary Public, in and for said County and State, hereby certify that _____ whose name is signed to the foregoing Affidavit, and who is known to me, acknowledged before me on this date that, being informed of the contents of the above and foregoing affidavit, he/she as an officer of _____ (business entity) and with full authority, executed the same voluntarily for and as the act of said company on the day the same bears date.

Given under my hand and official seal of office this _____ day of _____, _____.

Notary Public

TRADE REFERENCE FORM

***The completion of this form is not necessary if you have been awarded contracts or conducted business with the City of Alexander City within the last five years.**

Name of Government Organization or Business: _____

Point of Contact: _____ Phone: _____

Address: _____ State: _____ Zip: _____

Scope of Project(s) Completed or Description of Item(s) Sold: _____

Name of Government Organization or Business: _____

Point of Contact: _____ Phone: _____

Address: _____ State: _____ Zip: _____

Scope of Project(s) Completed or Description of Item(s) Sold: _____

Name of Government Organization or Business: _____

Point of Contact: _____ Phone: _____

Address: _____ State: _____ Zip: _____

Scope of Project(s) Completed or Description of Item(s) Sold: _____

SCOPE OF WORK
ALEXANDER CITY, ALABAMA
T.C. RUSSELL AIRPORT
REPLACE PRECISION APPROACH PATH INDICATORS (PAPI)

1. Replace all existing L-880 Incandescent PAPI Units with new L-880(L)-B-2 LED PAPI Units per attached specifications. Price shall include baffles as required, new isolation transformers, modifications to existing concrete pads as required, and all other work necessary to place the installation in first class working condition.

2. Replace existing Constant Current Regulator (CCR) serving the PAPI units with new 7.5 kW L-829 CCR per attached specifications. Price shall include wiring, testing, and all other work necessary to place the installation in first class working condition.

3. Make all arrangements and pay all fees required for a FAA Flight Test of the new PAPI installation. Contractor shall make all required corrections made necessary by the flight test. If additional Flight Tests are required, they shall be performed at no additional cost to the owner.

LED PAPI SPECIFICATION

INSTALLATION OF PRECISION APPROACH PATH INDICATOR

DESCRIPTION

This portion of work shall consist of furnishing and installing the LED Precision Approach Path Indicator (PAPI) in accordance with these specifications.

This item shall also include all wire and cable connections, the furnishing and installing of all necessary conduits and fittings and all necessary mounting structures. It shall also include the testing of the installation and all incidentals necessary to place the LED PAPI light units in operation as completed units to the satisfaction of the Engineer.

EQUIPMENT AND MATERIALS

The LED PAPI shall conform to the requirements of FAA Advisory Circular 150/ 5345-28 (latest revision), "Precision Approach Path Indicator Systems."

The LED PAPI shall be ETL certified. The LED PAPI shall be as manufactured by ADB SAFEGATE (www.adbsafegate.com) or approved equal.

EQUIPMENT SUPPLIED.

The LED PAPI system shall consist of the following classifications:

- a. L-880(L) - System consisting of 4 Light Units
- b. Style B - Airfield series circuit powered
- c. Class II - Operation down to -67°F (-55°C)

The system shall also include an Interconnection Cable Kit and one Instruction Manual (per system). The manufacturer shall also have a downloadable electronic version of the manual available on their web site

- **LED PAPI LIGHT UNIT**

To ensure reduced energy consumption and reduced maintenance requirements, each PAPI Light Unit shall use a Light Emitting Diode (LED) assembly. To maximize optical efficiency, the optical system shall consist of a sealed optical chamber. The LED assembly and front glass shall be easily replaceable without requiring Light Unit recalibration. The optical chamber shall be protected from sandblasting by a separate, hardened front glass which is digitally controlled and is designed to ensure that the outer glass is clear of frost/dew within 3 minutes over a temperature range of -21 °C to +55 °C (-6 °F to +131 °F), 4 minutes over a temperature range of -39 °C to -22 °C (-38 °F to -8 °F), and 5 minutes over a temperature range of -55 °C to -40 °C (-67 °F to -40 °F). The average intensity in red light will be at least 15,000 Cd for a horizontal beam spread of -6° to +6° and a vertical angle of 3.5° below transition. The transition sector will not exceed 3 minutes of arc over the full beam width.

Each Light Unit shall include a control board with associated tilt sensor electronics. The Light Unit shall have a visual display on the exterior that shows the actual Light Unit angle. The visual display shall also have the capability to display the horizontal (zero) setting of the Light Unit. Tilt sensors containing mercury shall not be used.

PAPI Units specified with baffles shall include factory installed left and right-side baffles on all light units. Each side baffle shall have the capability to be adjusted independently.

Each Light Unit shall be constructed as follows:

The Light Unit shall be made from folded aluminum sheet fully protected against corrosion. It shall be fully weatherproof. For ease of alignment, the PAPI Light Unit shall be mounted using three mounting legs. Precision elevation adjustment shall be possible in less than 10 minutes per unit, making use of the visual display incorporated into each Light Unit.

- **STYLE B SYSTEM REQUIREMENTS**

The Light Units shall be powered via the 5-step, 6.6A airfield series circuit. Each LED PAPI Light Unit shall require only one 20A, 6.6A 200W (maximum) isolation transformer.

CONSTRUCTION METHODS

- **PLACING THE PAPI LIGHTS**

The contractor shall furnish and install the LED PAPI system as specified in the proposal and shown in the plans. The LED PAPI shall be mounted on the existing concrete bases at the location shown on the plans. The LED PAPI shall be vertically aligned according to the requirements in the plans using the aiming procedures detailed by the manufacturer. Each light unit shall be aimed outward into the approach zone on a line parallel to the runway centerline within a tolerance of +/- 1/2 degree. The beam centers of all light units shall be within +/- 1 inch of a horizontal plane. This horizontal plane shall be within +/- 1 foot of the elevation of the runway centerline at the intercept point of the visual glidepath with the runway. The front face of each light unit in the bar shall be located on a line perpendicular to the runway centerline within +/- 6 inches. The tilt sensor shall be set on all Single Channel PAPI Light Units according to the manufacturer's instructions.

TESTING

The system shall be fully tested by continuous operation for not less than 24 hours as a completed system prior to acceptance. The test shall include the functioning of each intensity control in both Remote and Local not less than 10 times at the beginning and end of the 24-hour test.

METHOD OF MEASUREMENT

- **MEASUREMENT**

The quantity of lights to be paid for under this item shall be for one LED PAPI system, one Interconnection Cable Kit and one Instruction Manual installed and accepted as completed units, in place, ready for operation.

BASIS FOR PAYMENT

- **PAYMENT.**

Payment will be made at the contract unit price for the completed LED PAPI system installed, in place by the Contractor, and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

END OF PAPI SPECIFICATION

L-829 CONSTANT CURRENT REGULATOR (CCR) SPECIFICATION

INSTALLATION OF FERRORESONANT L-829 CCR

DESCRIPTION

This item shall consist of furnishing and installing the L-829 constant current regulator (CCR) in accordance with these specifications.

This item shall also include all circuit breakers, wire and cable connections, the furnishing and installing of all necessary conduits and fittings and all necessary mounting structures.

It shall also include the testing of the installation and all incidentals necessary to place the CCRs in operation as completed units to the satisfaction of the Engineer.

EQUIPMENT AND MATERIALS

The L-829 CCRs shall be ETL certified according to the requirements of FAA Advisory Circular 150/5345-10 (latest edition) "Specification for Constant Current Regulators and Regulator Monitors." The L-829 shall be Ferroresonant and shall be 6.6A,5-step, 7.5 kW, with an input voltage of 208Vac, 60 hz. The remote control voltage shall be 120Vac. The L-829 CCRs shall be as manufactured by ADB SAFEGATE (www.adbsafegate.com) or approved equal.

EQUIPMENT SUPPLIED

A quantity of 1- FAA L-829 CCR{s} shall be supplied. Each CCR shall include two Instruction Manuals.

- **CCR**

The CCR shall supply five 6.6A precision output levels to power the airfield lighting circuit. Output current levels shall be maintained within $\pm 3\%$ at any intensity step. Nominal output current levels shall be maintained even when 30% of the isolation transformers have open secondaries. If input power loss occurs, operation shall resume within five seconds after restoration of input power. The input power factor shall be 0.99 minimum for 2.5kW to 30kW CCRs. The efficiency shall be 90% minimum for 2.5kW to 25kW CCRs, and 92% efficiency for 30kW CCRs.

The CCR shall use a Ferroresonant design that produces minimal EMI, high efficiency and near unity power factor for AC 150/5345-10 test conditions.

The CCR shall exceed the EMI testing requirements specified in FAA AC 150/5345-10 (current edition). A single control board shall be used for all versions of the Ferroresonant CCR to make troubleshooting easier and to minimize spare parts.

The CCR shall have output current surge limitation and soft-start to provide maximum airfield lamp protection. The CCR shall include overcurrent and open-circuit protection. No tools shall be needed to open a hinged front access door. To improve safety, no high voltage shall be present inside the front door area. Lightning protection on both the input and output of the CCR shall be provided. An integral CCR output cutout shall be provided.

Each CCR shall include a Distributed Control and Monitoring Device (DCME) on the front door to provide an integrated control and monitoring package. Inclusion of a DCME with a L-828 CCR provides for FAA L-829 functionality. The DCME on each CCR shall be equipped with a front-mounted output current digital indicator with an accuracy of $\pm 2\%$ percent. The DCME shall perform all FAA L-829 monitoring functions including measurement of True RMS CCR output current and voltage, detection of lamps-out, loss of input power, incorrect current, overcurrent and open-circuit. The DCME shall also be capable of displaying CCR output wattage and VA. The DCME front panel digital display shall be capable of alternately showing all monitored parameters. In case of system failure, the DCME shall include remote control latching relays that allow the CCR to stay either in the last selected state or to revert to a preset state.

CONSTRUCTION METHODS

PLACING THE L-829 CCR. The contractor shall furnish and install each L-829 CCR as specified in the proposal and shown in the plans. The L-829 shall be mounted in the vault at the location shown on the plans.

TESTING

The CCR shall be calibrated according to the manufacturer's instructions using a True RMS meter. An open-circuit test, conducted according to the manufacturer's instructions, shall also be performed. The CCR shall then be fully tested by continuous operation for not less than 24 hours prior to acceptance. The test shall include operating the constant current regulator in each step (Local and Remote) not less than 10 times at the beginning and end of the 24-hour test.

METHOD OF MEASUREMENT

- **MEASUREMENT**

The quantity of equipment to be paid for under this item shall be for one L-829 CCR, and two Instruction Manuals (per CCR) installed and accepted as a completed unit, in place, ready for operation.

BASIS FOR PAYMENT

- **PAYMENT**

Payment will be made at the contract unit price for the completed total quantity of L-829 CCR installed, in place by the Contractor, and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

END OF L-829 CCR SPECIFICATION

BID FORM 23-13
ALEXANDER CITY, ALABAMA
T.C. RUSSELL AIRPORT
REPLACE PRECISION APPROACH PATH INDICATORS (PAPI)

Location	Line Total
Removal and Disposal of old system	
Purchase and Installation of new PAPI system	
Purchase and Installation of new L-289 CCR	
Mobilization	
Permitting	
Testing	
Grand Total:	