



# Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
 ONE CAPITOL HILL  
 PROVIDENCE RI 02908

BUYER: Mosca, Gary  
 PHONE #: 401-574-8124

CREATION DATE : 31-JAN-19  
 BID NUMBER: 7598596  
 TITLE: LED THEATRE LIGHTING FIXTURES - RHODE ISLAND COLLEGE  
 BID CLOSING DATE AND TIME: 27-FEB-2019 10:00:00

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 RIC-PURCHASING  
 600 MOUNT PLEASANT AVENUE  
 PROVIDENCE, RI 02908  
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 RIC-PURCHASING  
 600 MOUNT PLEASANT AVENUE  
 PROVIDENCE, RI 02908  
 US

Requisition Number: 1594681

Note to Bidders: QUESTIONS about this solicitation must be emailed and received by the Division of Purchases at [doa.purquestions3@purchasing.ri.gov](mailto:doa.purquestions3@purchasing.ri.gov) no later than February 11, 2019, 5:00 PM (ET), in a Microsoft Word attachment with the corresponding solicitation number. Questions, if any, and responses will be posted on the Division of Purchases website at [www.purchasing.ri.gov](http://www.purchasing.ri.gov) as an addendum to this solicitation

Line	Description	Quantity	Unit	Unit Price	Total
1	Delivery To: Rhode Island College Nazarian Center for Performing Arts 600 Mount Pleasant Avenue Providence, RI 02908 A loading Dock is available.  All prices shall be quoted F.O.B. destination, freight pre-paid with all transportation and handling charges paid by the Vendor; Responsibility and liability for loss or damage shall remain with the Vendor until final inspection and acceptance when responsibility shall pass to the State except as to latent defects, fraud and or Vendor's warranty obligations; Costs shall include all packaging and/or crating charges which shall be of durable construction, good condition, properly labeled and suitable for handling of contents.  ETC COLORSOURCE SPOT BRAND, BLACK WITH EDISON TO POWER CON TAIL WITH BLSCK SAFTEY CABLES, OR AS AN APPORVED EQUAL - PER ATTACHED SPECIFICATIONS.	32.00	Each		

Delivery: \_\_\_\_\_

Terms of Payment: \_\_\_\_\_

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer

**Contract Terms and Conditions**

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**Terms and Conditions**

**BID STANDARD TERMS AND CONDITIONS**

**TERMS AND CONDITIONS FOR THIS BID**

**INSURANCE REQUIREMENTS**

AN INSURANCE CERTIFICATE IN COMPLIANCE WITH PROVISIONS OF ITEM 31 (INSURANCE) OF THE GENERAL CONDITIONS OF PURCHASE IS REQUIRED FOR COMPREHENSIVE GENERAL LIABILITY, AUTOMOBILE LIABILITY, AND WORKERS' COMPENSATION AND MUST BE SUBMITTED BY THE SUCCESSFUL BIDDER(S) TO THE DIVISION OF PURCHASES PRIOR TO AWARD. THE INSURANCE CERTIFICATE MUST NAME THE STATE OF RHODE ISLAND AS CERTIFICATE HOLDER AND AS AN ADDITIONAL INSURED. FAILURE TO COMPLY WITH THESE PROVISIONS MAY RESULT IN REJECTION OF THE OFFEROR'S BID. ANNUAL RENEWAL CERTIFICATES MUST BE SUBMITTED TO THE AGENCY IDENTIFIED ON THE PURCHASE ORDER. FAILURE TO DO SO MAY BE GROUNDS FOR CANCELLATION OF CONTRACT.

NOTE: IF THIS BID COVERS CONSTRUCTION, SCHOOL BUSING, HAZARDOUS WASTE, OR VESSEL OPERATION, APPLICABLE COVERAGES FROM THE FOLLOWING LIST MUST ALSO BE SUBMITTED TO THE DIVISION OF PURCHASES PRIOR TO AWARD: \* PROFESSIONAL LIABILITY INSURANCE (AKA ERRORS & OMISSIONS) - \$1 MILLION OR 5% OF ESTIMATED PROJECT COST, WHICHEVER IS GREATER. \* BUILDER'S RISK INSURANCE - COVERAGE EQUAL TO FACE AMOUNT OF CONTRACT FOR CONSTRUCTION. \* SCHOOL BUSING - AUTO LIABILITY COVERAGE IN THE AMOUNT OF \$5 MILLION. \* ENVIRONMENTAL IMPAIRMENT (AKA POLLUTION CONTROL) - \$1 MILLION OR 5% OF FACE AMOUNT OF CONTRACT, WHICHEVER IS GREATER. \* VESSEL OPERATION - (MARINE OR AIRCRAFT) - PROTECTION & INDEMNITY COVERAGE REQUIRED IN THE AMOUNT OF \$1 MILLION.

**DELIVERY PER AGENCY**

DELIVERY OF GOODS OR SERVICES AS REQUESTED BY AGENCY.

**NON-COMPLIANCE - SPECIFICATION**

THE PRODUCT(S) PROVIDED BY VENDORS WILL BE SUBJECT TO RANDOM TESTING. IF THE PRODUCT DOES NOT MEET SPECIFICATION, THE VENDOR WILL BE RESPONSIBLE FOR ADMINISTRATIVE COSTS, LAB TESTING AND PERSONNEL COSTS. NON-COMPLIANCE OF THE PRODUCT TO THE BID SPECIFICATION WILL RESULT IN THE REVOCATION OF THE CONTRACT/PURCHASE ORDER.

**BLANKET PAYMENT**

DELIVERY OF GOODS OR SERVICES AS REQUESTED BY AGENCY. PAYMENTS WILL BE AUTHORIZED UPON SUBMISSION OF PROPERLY RENDERED INVOICES NO MORE THAN MONTHLY TO THE RECEIVING AGENCY. ANY UNUSED BALANCE AT END OF BLANKET PERIOD IS AUTOMATICALLY CANCELLED.

**EQUAL OPPORTUNITY COMPLIANCE**

THIS PURCHASE ORDER IS AWARDED SUBJECT TO EQUAL OPPORTUNITY COMPLIANCE.

## **PURCHASE AGREEMENT BID**

**BIDDING** (a) A single price shall be quoted for each item against which a proposal is submitted. This price will be the maximum in effect during the agreement period. Any price decline at the manufacturer's level shall be reflected in a reduction of the agreement price to the State. (b) Quantities, if any, are estimated only. The agreement shall cover the actual quantities ordered during the period. Deliveries will be billed at the single, firm, awarded unit price quoted regardless of the quantities ordered. (c) Bid price is net F.O.B. destination and shall include inside delivery at no extra cost. (d) Bids for single items and/or a small percentage of total items listed, may, at the State's sole option, be rejected as being non-responsive to the intent of this request. **ORDERING** (a) The User Agency(s) will submit individual orders for the various items and various quantities as may be required during the agreement period. (b) Exception - Regardless of any agreement resulting from this bid, the State reserves the right to solicit prices separately for any extra large requirements for delivery to specific destinations.

Mailing Address for Bid Proposals issued by the State of Rhode Island, Division of Purchases:

All Bid Proposals must be submitted to the following address:

State of Rhode Island  
Department of Administration  
Division of Purchases, 2nd Floor  
One Capitol Hill  
Providence, RI 02908

## **QUOTATION TERMS**

ALL QUOTES ARE SUBJECT TO THE TERMS AND CONDITIONS STATED IN THE BID.

## **RIVIP INFO - BID SUBMISSION REQUIREMENTS**

It is the vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form should be attached to the front of the offer. Each bid proposal must be submitted in a separate sealed envelope with the bidder's name and address and the specific "Solicitation Number," "Solicitation Title," and the "Bid Proposal Submission Deadline" marked in the upper left-hand corner of the envelope.

The bid proposal must be delivered (via mail, messenger service, or personal delivery) to the Division of Purchases and date-stamped/receipted by the date and time specified for the bid proposal submission deadline. Bidders should mail bid proposals sufficiently in advance of the bid proposal submission deadline to ensure timely delivery to the Division of Purchases or, when delivering a bid proposal in person or by messenger, should allow additional time for parking and clearance through security checkpoints. Bid proposals must be addressed to:

Rhode Island Department of Administration  
Division of Purchases, 2nd Floor  
One Capitol Hill, Providence, RI 02908-5855

Bid proposals that are not received by the Division of Purchases by the bid proposal submission deadline for whatever reason will be deemed late and will not be considered. The submission time will be determined by the time clock in the Division of Purchases. Postmarks will not be considered proof of timely submission.

Bid proposals in electronic format are not accepted at this time.

At the bid proposal submission deadline, bid proposals will be opened and read aloud in public.

### **DIVESTITURE OF INVESTMENTS IN IRAN REQUIREMENT:**

**No vendor engaged in investment activities in Iran as described in R.I. Gen. Laws §37-2.5-2(b) may submit a bid proposal to, or renew a contract with, the Division of Purchases. Each vendor submitting a bid proposal or entering into a renewal of a contract is required to certify that the vendor does not appear on the list maintained by the General Treasurer pursuant to R.I. Gen. Laws §37-2.5-3.**

**VENDOR SPECIFICATIONS**

ALL VENDORS MUST INCLUDE SPECIFICATIONS WITH BID PROPOSAL (EVEN THOSE BIDDING BRAND SPECIFIED). FAILURE TO SUBMIT SPECIFICATIONS WITH BID PROPOSAL MAY RESULT IN DISQUALIFICATION OF BID. ITEMS IN CATALOGS MUST BE CLEARLY MARKED AND PAGES TABBED.

**SOLICITATION 7598596**  
**SUPPLY THEATRE LIGHTING FIXTURES – RHODE ISLAND COLLEGE**

The State of Rhode Island on behalf of Rhode Island College is seeking competitive bids from vendor to supply LED Theatre Lighting Fixtures as specified herein. There is no installation as part of this solicitation.

The following specifications listed within this bid packet are the minimum requirements. Any manufacturer's deviation from the specification, no matter how minor, shall be noted on a separate sheet and be referenced to the section. The deviation shall be explained in detail and identified as an Exception, Clarification or Enhancement.

Any request to offer a substitute product must adhere to the following:

**SUBSTITUTION TERMS: Bid #7598596**

- A) The materials, products, and equipment described in the bidding documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.
- B) No substitution will be considered prior to receipt of bids unless written request for approval has been received by the division of purchases **no later than February 11, 2019 @ 5:00 PM (ET)**. Such requests shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance, and test data and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment, or other portions of the work, including changes in the work of other contracts that incorporation of the proposed substitution would require, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The State of Rhode Island's decision of approval or disapproval of a proposed substitution shall be final.
- C) If the state approves a proposed substitution prior to receipt of bids, such approval will be set forth in an addendum. Bidders shall not rely upon approvals made in any other manner.
- D) No substitutions will be considered after the contract award unless specifically provided for in the contract documents.

**Part 1.**

**Indicate by marking "X" for comply.**

**Color mixing or White-light Light Emitting Diode Profile fixture**

**A. General**

1. The fixture shall be a color-mixing high-intensity LED illuminator with DMX control of intensity and color. The fixture shall be a ColorSource Spot, ColorSource Spot Deep Blue or ColorSource Spot Pearl as manufactured by Electronic Theatre Controls, Inc. or as an approved equal.

Comply\_\_\_\_\_

2. All LED fixtures shall be provided by a single manufacturer to ensure compatibility

Comply\_\_\_\_\_

3. The fixture shall be UL 1573 listed for stage and studio use

Comply\_\_\_\_\_

4. The fixture shall comply with the USITT DMX512-A standard

Comply\_\_\_\_\_

5. The fixture shall be provided with the minimum warranty of 5 years full fixture coverage and 10 years LED array coverage

Comply\_\_\_\_\_

6. ColorSource Spot and ColorSource Spot Deep Blue, or as an approved equal.

- a. The fixture shall have a LM-84 report with a L70 rating of no less than 54,000 hours

Comply\_\_\_\_\_

- 1) Substitutes must provide evidence of minimum L70 rating of no less than 54,000 hours

Comply\_\_\_\_\_

- a) If no LM-84 report is available, an acceptable alternate is a LM-80 report on all emitters with a LM-79 report and an in situ temperature measurement test verifying the conditions of the fixture meet the conditions of the LM-80 report

Comply\_\_\_\_\_

- b) All tests and reports must be completed by a Nationally Recognized Testing Laboratory

Comply\_\_\_\_\_

- c) All tests must be conducted to IES standards

Comply\_\_\_\_\_

7. ColorSource Spot Pearl, or as an approved equal.

- a. The fixture shall have a LM-84 report with a L70 rating of no less than 36,000 hours

Comply\_\_\_\_\_

- 1) Substitutes must provide evidence of minimum L70 rating of no less than 36,000 hours

Comply\_\_\_\_\_

- a) If no LM-84 report is available, an acceptable alternate is a LM-80 report on all emitters with a LM-79 report and an in situ temperature measurement test verifying the conditions of the fixture meet the conditions of the LM-80 report

Comply\_\_\_\_\_



b) All tests and reports must be completed by a Nationally Recognized Testing Laboratory

Comply\_\_\_\_\_

c) All tests must be conducted to IES standards

Comply\_\_\_\_\_

B. Physical

1. The unit shall be constructed of rugged, die cast aluminum, free of burrs and pits.

Comply\_\_\_\_\_

2. The following shall be provided:

a. Lens secured with silicone shock mounts

Comply\_\_\_\_\_

b. Shutter assembly shall allow for +/-25° rotation

Comply\_\_\_\_\_

c. 20 gauge stainless steel shutters

Comply\_\_\_\_\_

d. Interchangeable lens tubes for different field angles with Teflon guides for smooth tube movement

Comply\_\_\_\_\_

e. Sturdy integral die cast gel frame holders with two accessory slots, and a top-mounted, quick release gel frame retainer

Comply\_\_\_\_\_

- f. Rugged steel yoke with two mounting positions allowing 300°+ rotation of the fixture within the yoke

Comply\_\_\_\_\_

- g. Positive locking, hand operated yoke clutch

Comply\_\_\_\_\_

- h. Slot with sliding cover for motorized pattern devices or optional iris

Comply\_\_\_\_\_

- 3. The housing shall have a rugged black powder coat finish

Comply\_\_\_\_\_

- a. White or silver/gray powder coat finishes shall be available as color options

Comply\_\_\_\_\_

- b. Other powder coat color options shall be available on request

Comply\_\_\_\_\_

- 4. Power supply, cooling and electronics shall be integral to each unit.

Comply\_\_\_\_\_

- 5. The unit shall ship with:

- a. Theatrical-style hanging yoke as standard

Comply\_\_\_\_\_

- b. 5' cable with Neutrik powerCON™ to choice of connector as standard

Comply\_\_\_\_\_

- c. Gate diffuser

Comply\_\_\_\_\_

- d. A-size pattern holder

Comply\_\_\_\_\_

- 6. Available options shall include but not be limited to:

- a. Bare-end, Stage-Pin or Twist-lock type-equipped power leads

Comply\_\_\_\_\_

- b. powerCON to powerCON cables for fixture power linking

Comply\_\_\_\_\_

- c. Smooth Wash Diffuser for overlapping beams of light from multiple fixtures

Comply\_\_\_\_\_

C. Optical

- 1. The light beam should have a 2-to-1 center-to-edge drop-off ratio

Comply\_\_\_\_\_

2. The unit shall provide, but not be limited to:
- a. Low gate and beam temperature  
Comply\_\_\_\_\_
  - b. Sharp imaging through a three-plane shutter design  
Comply\_\_\_\_\_
3. The unit shall provide, but not be limited to:
- a. 5, 10, 14, 19, 26, 36, 50, 70 and 90 degree field angles  
Comply\_\_\_\_\_
  - b. High-quality pattern imaging  
Comply\_\_\_\_\_
  - c. Sharp shutter cuts without halation  
Comply\_\_\_\_\_
  - d. Shutter warping and burnout in normal use shall be unacceptable  
Comply\_\_\_\_\_
  - e. Adjustable hard and soft beam edges  
Comply\_\_\_\_\_
4. 19, 26, 36, and 50 degree units shall have optional lens tubes available for precision, high-contrast imaging.

Comply\_\_\_\_\_

1)

5. Shall work with S4 LED CYC and Fresnel adapters

Comply\_\_\_\_\_

D. Environmental and Agency Compliance

1. The fixture shall be ETL and cETL LISTED and/or CE rated, and shall be so labeled when delivered to the job site.

Comply\_\_\_\_\_

2. The fixture shall be ETL LISTED to the UL1573 standard for stage and studio use

Comply\_\_\_\_\_

3. The fixture shall be rated for IP-20 dry location use.

Comply\_\_\_\_\_

E. Thermal

1. Fixture shall be equipped with a cooling fan.

Comply\_\_\_\_\_

2. The fixture shall utilize advanced thermal management systems to maintain LED life to an average of 70% intensity after 54,000 hours of use for color mixing versions and 36,000 hours for Pearl

Comply\_\_\_\_\_

a. Thermal management shall include multiple temperature sensors within the housing to include:

1) LED array circuit board temperatures

Comply\_\_\_\_\_

2) Fixture ambient internal temperature

Comply\_\_\_\_\_

3. The fixture shall operate in an ambient temperature range of 0°C (32°F) minimum, to 40° C (104°F) maximum ambient temperature.

Comply\_\_\_\_\_

F. Electrical

1. The fixture shall be equipped with a 100V to 240V 50/60Hz internal power supply

Comply\_\_\_\_\_

2. The fixture shall support power in and thru operation

Comply\_\_\_\_\_

a. Power in shall be via Neutrik® powerCON™ input connector

Comply\_\_\_\_\_

b. Power thru shall be via Neutrik ® powerCON™ output connector

Comply\_\_\_\_\_

c. Fixture power wiring and accessory power cables shall be rated to support linking of multiple fixtures up to the capacity of a 15A breaker

Comply\_\_\_\_\_

3. The fixture requires power from a non-dim source  
Comply\_\_\_\_\_

4. Fixtures shall have droop compensation to prevent thermal shift of color or intensity  
Comply\_\_\_\_\_

5. Power supply outputs shall have self-resetting current-limiting protection  
Comply\_\_\_\_\_

6. Power supply shall have power factor correction  
Comply\_\_\_\_\_

G. LED Emitters

1. The fixture shall contain a minimum of four different LED colors to provide color characteristics or two color temperature white LEDs for the Pearl products, as described in the Color Section below  
Comply\_\_\_\_\_

2. All LEDs used in the fixture shall be high brightness and proven quality from established and reputable LED manufacturers.  
Comply\_\_\_\_\_

a. Fixture shall utilize Luxeon® Rebel™ LED emitters  
Comply\_\_\_\_\_

3. Manufacturer of LED emitters shall utilize an advanced production LED binning process to maintain color consistency.

Comply\_\_\_\_\_

4. LED emitters should be rated for nominal 54,000-hour L70 rating for color mixing versions and 36,000-hour L70 rating for Pearl variant

Comply\_\_\_\_\_

5. LED system shall comply with all relevant patents

Comply\_\_\_\_\_

H. Calibration

1. Fixture shall be calibrated at factory for achieve consistent color and intensity output between fixtures built at different times and/or from different LED lots or bins

Comply\_\_\_\_\_

- a. Calibration data shall be stored on the control card as a permanent part of on-board operating system

Comply\_\_\_\_\_

- b. All arrays, including replacement arrays shall be calibrated to the same standard to insure consistency

Comply\_\_\_\_\_

- c. Fixtures not offering LED calibration shall not be acceptable

Comply\_\_\_\_\_



I. Color

1. The fixture shall utilize an minimum of 60 LED emitters

Comply\_\_\_\_\_

- a. These emitters shall be made up of Red, Green, Blue and Lime for ColorSource, or as an approved equal.

Comply\_\_\_\_\_

- b. These emitters shall be made up of Red, Green, Indigo and Lime for ColorSource Deep Blue, or as an approved equal.

Comply\_\_\_\_\_

- c. These emitters shall be made up of 2700 K and 6500 K for ColorSource Pearl, or as an approved equal.

Comply\_\_\_\_\_

J. Dimming

1. The LED system shall use 15-bit nonlinear scaling techniques for high-resolution dimming.

Comply\_\_\_\_\_

2. The fixture shall utilize an Incandescent dimming curve

Comply\_\_\_\_\_

3. Dimming curve shall be optimized for smooth dimming over longer timed fades.

Comply\_\_\_\_\_

4. The LED system shall be digitally driven using high-speed pulse width modulation (PWM)

Comply\_\_\_\_\_

5. LED control shall be compatible with broadcast equipment in the following ways:
- a. PWM control of LED levels shall be imperceptible to video cameras and related equipment

Comply\_\_\_\_\_

- b. PWM shall be capable of being set via RDM to 25,000hz

Comply\_\_\_\_\_

K. Control and User interface

1. The fixture shall be USITT DMX512-A compatible via In and Thru 5-pin XLR connectors or RJ45 connectors

Comply\_\_\_\_\_

2. The fixture shall be compatible with the ANSI RDM E1.20 standard

Comply\_\_\_\_\_

- a. All fixture functions shall accessible via RDM protocol for modification from suitably equipped control console

Comply\_\_\_\_\_

- b. Temperature sensors within the luminaire shall be viewable in real time via RDM

Comply\_\_\_\_\_

c. Fixtures not offering RDM compatibility, feature set access or temperature monitoring via RDM shall not be compatible

Comply\_\_\_\_\_

3. The fixture shall be equipped with a 7-segment display

Comply\_\_\_\_\_

4. The fixture shall be equipped with a three-button user-interface

Comply\_\_\_\_\_

5. A variable-rate strobe channel shall be provided

Comply\_\_\_\_\_

6. The fixture shall offer stand-alone functionality eliminating the need for a console

Comply\_\_\_\_\_

a. Fixture shall ship with 12 preset colors or color temperatures accessible as a stand-alone feature

Comply\_\_\_\_\_

b. Fixture shall ship with 5 sequences accessible as a stand-alone feature

Comply\_\_\_\_\_

c. Each color and sequence can be modified by the end user via RDM

Comply\_\_\_\_\_

- d. Fixtures can be linked together with standard DMX cables and controlled from designated master fixture

Comply\_\_\_\_\_

- 1) Up to 32 fixtures may be linked

Comply\_\_\_\_\_

- e. Fixtures in a stand-alone state shall restore to the settings present prior to power cycling, eliminating the need for reprogramming

Comply\_\_\_\_\_

- f. Fixtures without stand-alone operation features described above shall not be acceptable.

Comply\_\_\_\_\_

End