



ATTACHMENTS

REQUEST FOR PROPOSAL RFP 15-16-01

INNOVATIVE LED STREETLIGHT REPLACEMENT

| Attachment Number | Title |
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| A | Proposal Checklist |
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ATTACHMENT A Proposal Checklist (REQUIRED)

The Proposal Checklist is required for all proposers. It is intended to assist you in determining if you have included all items in your proposal response.

| Required Items for All Proposals Unless Noted |
|--|
| Attachment A, Proposal Checklist |
| Cover Letter (See Section 11.1) |
| Executive Summary (Section 11.2), maximum of two pages |
| <u>Project Team (Section 11.4)</u> |
| <ul style="list-style-type: none"> Management Plan – 11.4.1 High Level Project Plan with timeline – 11.4.2 Key Personnel Assignments/Responsibilities - 11.4.3 <ul style="list-style-type: none"> ○ Organizational Chart with reporting structure – 11.4.3.1 ○ Key personnel with job titles and project manager – 11.4.3.2 One Page Resume for each Key Personnel – 11.4.4 Contractor or Installation Partner documents (if applicable) – 11.4.6 <ul style="list-style-type: none"> ○ Contractor/Installation Partner’s Key Personnel Assignments/Responsibilities ○ Contractor/Installation Partner’s Organizational Chart with reporting structure ○ Contractor/Installation Partner’s Key Personnel with job titles and project manager ○ One Page Resume for each of Contractor/Installation Partner’s Key Personnel Streetlight Design and Engineering documents (if applicable) – 11.4.5 <ul style="list-style-type: none"> ○ Streetlight Design/Engineering Key Personnel Assignments/Responsibilities ○ One Page Resume for Streetlight Design/Engineering Key Personnel |
| Attachment B, Proposal Specifics Worksheet |
| Attachment C, Proposal Valuation and Cost Form with Designated Responsible Parties |
| Attachment D, Proposal Certification Form |
| Attachment E, Project Team and Financial Background Information Worksheet |
| Attachment F, Previous Customer Reference Form <ul style="list-style-type: none"> Reference 1 Form Reference 2 Form Reference 3 Form Contractor/Installation Partner Customer References (if applicable, use Attachment F) <ul style="list-style-type: none"> Contractor/Installation Partner Reference 1 Form Contractor/Installation Partner Reference 2 Form Contractor/Installation Partner Reference 3 Form |
| Attachment G, Environmentally Preferred Procurement Program (EP3) Information Sheet |
| Response to Section 21, Exemplar Agreements (if applicable) |

| |
|---|
| Required for Telecomm and Other Proposals Requiring Backhaul, Power, etc. |
| Attachment H, Backhaul Specifications (if applicable) |
| Attachment I, Power Specifications (if applicable) |
| Attachment J, Telecommunications Specifications (if applicable) |
| Required for Streetlight Installation Proposals |
| Attachment K, Streetlight Control & Management System Specification Response Form |
| Attachment L, LED Luminaire Specifications |
| Product Sample Submissions per Appendix 3, Scope of Services for Streetlight Installation Proposals, Section 4, Product Sample Submission |
| Optional Attachments |
| Attachment M, Local and Small Business Preference |

POST AWARD CHECKLIST

Successful proposer(s)/awardee(s) will be required to provide the following documents. Failure to provide the documents within required time frames may result in withdrawal of the Award, and award to the next highest ranked proposer.

The Post Award Checklist is provided to all proposers for planning purposes only. These items do not need to be submitted at this time.

| |
|--|
| Post Award Submittal Requirements |
| Insurance Requirements (see Appendix 7) Proposer Insurance Certificate Contractor/Installation Certificate |
| PG&E Report Requirements (see Appendix 6) |
| Wage Requirements (see Section 22) |
| Attachment N, Public Agency Participation Form |
| Performance/Payment Bond, 100% of contract amount (see Section 23). |

ATTACHMENT B Proposal Specifics Worksheet (REQUIRED)

1. Please describe how you intend to achieve the outcomes and goals outlined in this RFP, particularly those specified in Sections 1 (Introduction) and 2 (Goals and Objectives). We intend to achieve the outcomes and goals outlined in this RFP by providing the most advanced products and systems in the most efficient way to the City.
-

2. Describe the Community Benefit of your proposal, including aesthetics, reduction of clutter in the right-of-way, etc. The products we are proposing are the most stream-lined and modern in terms of its design and aesthetics, with minimal use of material. Its look will complement the City's moniker as the "Capital of Silicon Valley".
-

3. Describe the City assets that will be required to implement your proposal.

We are open to leveraging all city assets in implementation of our proposal, including the light poles and other city-owned properties.

4. Has your proposal been implemented elsewhere?

YES NO If yes, provide locations and dates of previous projects, as well as contact information for the jurisdiction or project.

5. Have you (or your installation partner) completed installations of LED streetlights in other locations?

YES NO If yes, provide locations, number of lights installed, project completion dates, and contact information for the jurisdiction or project.

See Attachment "F"

6. Will you be in any way attaching or placing equipment or otherwise utilizing City right-of-way, facilities, or property?

YES NO If yes, please complete Attachments H through J as applicable.

7. Will you be placing telecommunications or other equipment on City lightpoles?

YES NO If yes, please complete Attachments H through J as applicable.

See Attachments

8. Will your project limit or prevent access to City lightpoles or facilities by other providers or vendors due to technological or space factors or for other reasons?

YES NO If yes, please describe limitations to access in your proposal.

9. Does your proposal require a power source for any use other than powering the individual streetlights?

YES NO If yes, please complete Attachment I, Power Specifications.

10. For proposers answering "Yes" to Question 9:

a. Do you have understand that PG&E has limitations on the size and types of uses that may use streetlight circuits for power?

YES NO If you are unable to use these circuits, you must outline your power solution in Attachment I.

N/A

b. Are you willing to provide a sample piece of equipment for PG&E testing, as well as any and all technical information they require?

YES NO

N/A

11. Does your proposal require backhaul?

Please note: Available City of San José backhaul is limited. Proposer should not assume availability of City-supplied backhaul.

YES NO If yes, please delineate the source of backhaul to be used in Attachment H.

12. Does your proposal require the placement of utility cabinets, vaults, or other equipment in the City right-of-way?

YES **NO** If yes, please indicate the type and quantity.

13. Does your proposal reduce the number of utility cabinets, vaults, etc. in the City right-of-way?

YES **NO** If yes, how many of each type will be eliminated?

ATTACHMENT C Proposal Valuation and Cost Form With Designated Responsible Parties (REQUIRED)

NAME OF PROPOSER: STSC Enterprise Solutions, Inc.

Total Stated Value of Proposal: \$ 31,428.000.00

Proposal Type:

In Lieu Payment (Minimum value must be more than \$2 million)

LED Streetlight/Controller Unit Installation (Minimum proposal must be for an entire zone)

Term of Proposal (up to 25 years): 25 Years

Proposal Description: Please describe your concept. What City assets do you want to use? What benefit will your proposal provide in return? What revenues will the City receive?

| Project Value | | | | | |
|--|---------------|-----|-----------------|--------------|-------------------|
| Projected Revenues: Please detail any revenues the City is projected to receive over the course of the proposal timeline, the source of said revenues, how they will be calculated, and any other relevant information. | | | | | |
| # | Source | Qty | Unit of Measure | Unit Revenue | Projected Revenue |
| 1 | See next page | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total Projected Revenues | | | | | \$ |
| Value of other items: Please delineate any quantifiable benefits to the City that are not direct revenues. | | | | | |
| # | Source | Qty | Unit of Measure | Unit Revenue | Projected Value |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total Projected Value | | | | | \$ |

| Project Value | | | | | |
|--|--|-----|-----------------|--------------|-------------------|
| Projected Revenues: Please detail any revenues the City is projected to receive over the course of the proposal timeline, the source of said revenues, how they will be calculated, and any other relevant information | | | | | |
| # | Source | Qty | Unit of Measure | Unit Revenue | Projected Revenue |
| 1 | Citywide parking revenue (20%) | 25 | Year | 1,119,248 | \$ 27,981,200 |
| 2 | Parking Violation (30%) | 25 | Year | 1,474,200 | \$ 36,855,000 |
| 3 | Telecommunication (30%) | 25 | Year | 2,752,785 | \$ 68,819,625 |
| 4 | Naming Right (45%) | 25 | Year | 769,500 | \$ 19,237,500 |
| 5 | Traffic Violation (issued by smart system) (30%) | 25 | Year | No Data | No Data |
| Total Projected Revenues | | | | | \$ 152,893,325 |
| Value of other items: Please delineate any quantifiable benefits to the City that are not direct revenues. | | | | | |
| # | Source | Qty | Unit of Measure | Unit Revenue | Projected Revenue |
| 1 | See proposal | | | | |
| 2 | | | | | |
| 3 | | | | | |
| | | | | | \$ |
| Total Projected Revenues | | | | | |

LED Streetlight/Controller Unit Installation Proposals

The matrix below delineates steps and items required to provision LED streetlights and controller units. Using the matrix, delineate which items will be Proposer Responsibilities and which will be City Responsibilities, and the cash value.

Which zones will you be selecting for installation of LED streetlights and wireless controllers?
See Appendix 2 for more information. Proposer may select more than one zone. Quantity of lights in chart below should match the total number of lights in zone(s) selected.

| | | | |
|------------------|---------------|---------------------|---------------|
| Central San José | 11,090 lights | North-East San José | 10,780 lights |
| South San José | 10,280 lights | West San José | 7,135 lights |

| # | Description | Qty | Unit of Measure | Unit Cost | Extended Cost | Responsible Party |
|---------------------------------|---|------------------------------|------------------|-----------|---------------|-------------------|
| Luminaires and Equipment | | | | | | |
| 1 | Lightheads/luminaires <i>Note: average cost for purchase and installation is \$650/lighthead.</i> | 39,285 | EA | \$600 | \$25,535,250 | ✓ Proposer City |
| 2 | Luminaire controller <i>Note: average cost for purchase and installation of baseline unit is \$150 /controller. If using alternative, add costs for interoperability solution or conversion of City's existing 23,000 LED streetlights to new system in line 2A.</i> | 39,285 | EA | \$150 | \$5,892,750 | ✓ Proposer City |
| 2A | Luminaire controller (alternate system). | 23,000 | EA | \$60 | \$1,380,000 | ✓ Proposer City |
| 3 | Wireless Luminaire Device (if separate from luminaire controller) | Included in items 2 & 2A | | | | ✓ Proposer City |
| 4 | Wireless Gateway (quantity = # of gateways) | Included in items 2 & 2A | | | | ✓ Proposer City |
| 5 | Temporary Communication from Gateway to Central Software (quantity = # of gateways multiplied by 6 months) | Included in items 2 & 2A / 7 | | | | ✓ Proposer City |
| 6 | Software License (one-time purchase) | 1 | Lumpsum | \$11,500 | \$11,500 | ✓ Proposer City |
| 7 | Annual Software Maintenance Fee (Three Year Minimum) | 1 | Lumpsum | \$11,500 | \$11,500 | ✓ Proposer City |
| 8 | Annual Software Maintenance Fee (Contract Extension) | | To be negotiated | | | ✓ Proposer City |
| 9 | Power (if required for any use other than the luminaire itself) | | TBD | | | Proposer City |
| 10 | Backhaul (if applicable) | | TBD | | | Proposer City |
| 11 | Other | | TBD | | | Proposer City |

| # | Description | Qty | Unit of Measure | Unit Cost | Extended Cost | Responsible Party |
|------------------------------|--|-------------------|-----------------|-------------|---------------|--------------------|
| Professional Services | | | | | | |
| 12 | Engineering <i>All work must be done by a certified engineer.</i> | Included in items | 1 | | | ✓ Proposer City |
| 13 | Permitting <i>Note: Average permitting cost is \$80/lighthouse. Additional permitting fees may apply based on nature of proposal. This illustrative figure does not include Proposer staff or consultant time to prepare, submit or obtain permits.</i> | Not included | | | | Proposer ✓ City |
| 14 | CEQA Clearance | | | | | Proposer ✓ City |
| 15 | Project Management <i>Note: City Project Management costs should be calculated at no less than 20% of installation/engineering total.</i> | 1 | Lumpsum | \$1,178,550 | \$1,178,550 | ✓ Proposer City |
| 16 | Other | | | | | Proposer City |
| Construction | | | | | | |
| 17 | Installation <i>Note: average cost for purchase and installation is \$650/lighthouse.</i> | 39,285 | EA | \$650 | \$25,535,250 | Proposer City |
| 18 | Disposal/recycling of old lighthouses. <i>Note: Standard cost for Disposal/Recycling is \$5/lighthouse.</i> | 39,285 | EA | \$ 5 | \$196,425 | Proposer City |
| 19 | Other | | | | | Proposer City |
| 20 | Other | | | | | Proposer City |
| 21 | Other | | | | | Proposer City |
| 22 | Other | | | | | Proposer City |

Additional information: Please attach additional pages for additional background information.

ATTACHMENT D Proposal Certification Form (REQUIRED)

NO PROPOSAL SHALL BE ACCEPTED WHICH HAS NOT BEEN SIGNED IN INK IN THE APPROPRIATE SPACE BELOW

| | | |
|--------------------------------|---------------------------------------|--|
| Proposing Firm Name: | STSC Enterprise Solutions, Inc. | |
| Address: | 3780 Old Norcross Road, Suite 103-518 | |
| | Duluth, GA 30096 | |
| Telephone: | (770) 545-8803 | |
| Facsimile: | (770)0545-8804 | |
| E-mail: | jpark@stschq.com | |
| Contact person name and title: | Justin Park | |
| | Vice President | |

PROPOSER REPRESENTATIONS

1. Proposer did not, in any way, collude, conspire or agree, directly or indirectly, with any person, firm, corporation or other Proposer in regard to the amount, terms, or conditions of this proposal.
2. Proposer additionally certifies that neither Proposer nor its principals are presently disbarred, suspended, proposed for disbarment, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency, any California State agency, or any local governmental agency.
3. Proposer acknowledges that all requests for deviations, exceptions, and approved equals are enclosed herein and that only those deviations, exceptions, and approved equals included in the RFP document or permitted by formal addenda are accepted by the City.
4. Proposer did not receive unauthorized information from any City staff member or City Consultant during the Proposal period except as provided for in the Request for Proposals package, formal addenda issued by the City, or the pre-proposal conference.
5. Proposer certifies that this submission includes full consideration of the information and/or requirements identified in Addenda 1 through 12.
6. Proposer hereby certifies that the information contained in the proposal and all accompanying documents is true and correct.
7. Please check the appropriate box below:
 - If the proposal is submitted by an individual, it shall be signed by him or her, and if he or she is doing business under a fictitious name, the proposal shall so state.
 - If the proposal is submitted by a partnership, the full names and addresses of all members and the address of the partnership, the full names and addresses of all members and the addresses of the partnership, the full names and addresses of all members and the address of the partnership shall be stated and the proposal shall be signed for all members by one or more members thereof.

- If the proposal is submitted by a corporation, it shall be signed in the corporate name by an authorized officer or officers.
- If the proposal is submitted by a limited liability company, it shall be signed in the corporate name by an authorized officer or officers.
- If the proposal is submitted by a joint venture, the full names and addresses of all members of the joint venture shall be stated and it shall be signed by each individual.

By signing below, the submission of a proposal with all accompanying documents shall be deemed a representation and certification by the Proposer that they have investigated all aspects of the RFP, that they are aware of the applicable facts pertaining to the RFP process, its procedures and requirements, and that they have read and understand the RFP.

| | |
|---|---------------------------------|
| Authorized Representative Name (sign name): | STSC Enterprise Solutions, Inc. |
| Authorized Representative Signature (print name): | /Justin Park |
| Authorized Representative Title (print title):+ | Vice President |
| Complete additional signatures below as required per # 7 above | |
| Authorized Representative Name (sign name): | |
| Authorized Representative Signature (print name): | |
| Authorized Representative Title (print title):+ | |
| | |
| Authorized Representative Name (sign name): | |
| Authorized Representative Signature (print name): | |
| Authorized Representative Title (print title):+ | |

ATTACHMENT E Project Team and Financial Background Information Worksheet (REQUIRED)

All information requested in the Worksheet shall be furnished by the Proposer, and shall be submitted with the Proposal. Statements shall be complete and accurate and in the form requested. Omission, inaccuracy, or misstatement may be cause for the rejection of a proposal.

Proposer confirms that they meet the requirements stated above.

Part 1 – Corporate Information Background Questions (Required)

1. If a corporation, answer the following:

| | |
|--|-----------|
| A. When incorporated? | 9/15/2008 |
| B. In what state? | Georgia |
| C. Authorized to do business in California? | Yes |
| If so, what date? | 2/10/2016 |

2. If NOT a corporation, answer the following:

| | |
|---|---------------------|
| A. Name of Organization: | N/A |
| B. Date of Organization: | |
| C. General, Limited Partnership, or Joint Venture: | |
| | (if applicable) |
| D. Registered in California? | If so, when? |

3. Have you ever had a bond or surety denied, canceled, or forfeited?

YES NO If yes, state name of bonding company, date, amount of bond and reason for such cancellation or forfeiture in an attached statement.

4. Have you ever declared bankruptcy or been declared bankrupt?

YES NO If yes, state date, court jurisdiction, docket number, amount of liabilities and amount of assets.

5. Has your company ever had any agreements cancelled?

YES NO If yes, give details.

Part 1 – Corporate Information Background Questions (continued)

6. Has your company ever been sued by any organization for issues pertaining to fee payment, performance, or other related issues?

YES NO If yes, give details.

7. Are you currently engaged in merger or acquisition negotiations, or do you anticipate entering into merger or acquisition negotiations within the time period of this Request for Proposal?

YES NO If yes, give details. Attach copy of such agreement(s).

8. Are you now engaged in any litigation which does now or could in the future affect your ability to pay fees or perform under this Agreement?

YES NO If yes, give details.

9. **Has your company or subcontractors for this project ever been disbarred, suspended, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency, any California State agency, or any local governmental agency?**

YES NO If yes, give details.

The undersigned hereby declares under penalty of perjury that all statements, answers and representations made in this questionnaire are true and accurate, including all supplementary statements hereto attached. In the case of a corporate Proposer, the signature of one duly authorized representative is sufficient.

| | | |
|------------------------------------|-------------|------------------------------------|
| | 3/11/2016 | 3/11/2016 |
| Signature | Date | Signature Date |
| Justin Park | | |
| (Please Print or Type Name) | | (Please Print or Type Name) |
| Vice President | | |
| Title | | Title |

Part 2 – Installation Partner Background Questions (if applicable)

1. If a corporation, answer the following:

| | |
|--|-----------|
| A. When incorporated? | 7/18/1985 |
| B. In what state? | Florida |
| C. Authorized to do business in California? | Yes |
| If so, what date? | 2/13/2015 |

2. If NOT a corporation, answer the following:

A. Name of Organization: _____

B. Date of Organization: _____

C. General, Limited Partnership, or Joint Venture: _____
(if applicable)

D. Registered in California? _____ **If so, when?** _____

3. Have you ever had a bond or surety denied, canceled, or forfeited?

YES **NO** If yes, state name of bonding company, date, amount of bond and reason for such cancellation or forfeiture in an attached statement.

4. Have you ever declared bankruptcy or been declared bankrupt?

YES **NO** If yes, state date, court jurisdiction, docket number, amount of liabilities and amount of assets.

5. Has your company ever had any agreements cancelled?

YES **NO** If yes, give details.

6. Has your company ever been sued by any organization for issues pertaining to fee payment, performance, or other related issues?

YES **NO** If yes, give details.

7. Are you currently engaged in merger or acquisition negotiations, or do you anticipate entering into merger or acquisition negotiations within the time period of this Request for Proposal?

YES **NO** If yes, give details. Attach copy of such agreement(s).

8. Are you now engaged in any litigation which does now or could in the future affect your ability to pay fees or perform under this Agreement?

YES **NO** If yes, give details.

9. **Has your company or subcontractors for this project ever been disbarred, suspended, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency, any California State agency, or any local governmental agency?**

YES **NO** If yes, give details.

The undersigned hereby declares under penalty of perjury that all statements, answers and representations made in this questionnaire are true and accurate, including all supplementary statements hereto attached. In the case of a corporate Proposer, the signature of one duly authorized representative is sufficient.

| | | |
|------------------------------------|------------------------------------|------------------------------------|
| Signature | Date | Signature Date |
| (Please Print or Type Name) | (Please Print or Type Name) | (Please Print or Type Name) |
| Title | Title | |

ATTACHMENT F Previous Customer Reference Form (REQUIRED)

Proposer must submit three references using this form. References must be current (within the last 3 years) customer references where the proposed system has been implemented and accepted and where the Proposer's Contractor services have been successfully demonstrated.

(Copy this form as necessary to complete each reference.)

| | | |
|---|--|--------------------|
| Name of Customer: | Incheon Airport (Republic of Korea) | |
| Customer Address: | 424-47 Gonghangro | |
| | Junggu, Incheon 22382, Republic of Korea | |
| Customer Contact Name | Mark J. Lee | |
| Customer Contact Telephone | 82-1577-2600 | |
| Customer E-mail | mlee@amsiasia.com | |
| Date of Agreement/Contract | February, 2009 | |
| Period of Performance | From: April, 2009 | To: February, 2010 |
| Type of Contract | ✓✓✓ Firm Fixed Price | Not to Exceed |
| | Time & Material | Cost + Fixed Fee |
| | Other (Specify): | |
| What is the dollar value of the contract? | \$ 2,609,400 | |
| If contract was terminated or cancelled for convenience, please indicate the circumstances: | N/A | |
| Is this a reference for work Proposer has performed? (Yes or No) | Yes | |
| Provide a detailed description of work that you performed for this customer, including the size of the project, specifications for the project, technology deployed, or other details. If the customer is no longer using the Proposer's technology, provide a brief description explaining the reason(s). (Attach additional sheets if necessary.) | | |
| Retrofit and conversion of traditional lighting equipment to energy efficient LED system. The project consisted of upgrading High Bay Light, Security Light, Street Light, and Flood Light. Due to technology advancement, we will use enhanced smart system for the City of San Jose (see technical proposal). | | |
| | | |
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ATTACHMENT F Previous Customer Reference Form (REQUIRED)

Proposer must submit three references using this form. References must be current (within the last 3 years) customer references where the proposed system has been implemented and accepted and where the Proposer's Contractor services have been successfully demonstrated.

(Copy this form as necessary to complete each reference.)

| | | |
|---|--|------------------|
| Name of Customer: | The City of Sydney, Australia | |
| Customer Address: | Level 2, 456 Kent Street | |
| | Sydney, NSW 2000, Australia | |
| Customer Contact Name | Paul Mackay | |
| Customer Contact Telephone | 02-9265-9333 | |
| Customer E-mail | council@cityofsydney.nsw.gov.au | |
| Date of Agreement/Contract | Sempember, 2013 | |
| Period of Performance | From: | To: |
| | | |
| Type of Contract | Firm Fixed Price | Not to Exceed |
| | Time & Material | Cost + Fixed Fee |
| | ✓✓✓ Other (Specify): Lighting fixtures only sale | |
| What is the dollar value of the contract? | | \$ 2,395,162 |
| If contract was terminated or cancelled for convenience, please indicate the circumstances: | | N/A |
| Is this a reference for work Proposer has performed? (Yes or No) | | No |
| Provide a detailed description of work that you performed for this customer, including the size of the project, specifications for the project, technology deployed, or other details. If the customer is no longer using the Proposer's technology, provide a brief description explaining the reason(s). (Attach additional sheets if necessary.) | | |
| Supplied 16,500 lighting fixtures that consisted of 60W Led security lights replacing 125W HPS, 90W | | |
| LED street lights replacing 180W HPS, 120W street light replacing 250W HPS, and 180W LED | | |
| street lights replacing 400W HPS high mast street lights. | | |
| | | |
| | | |
| | | |
| | | |

ATTACHMENT F Previous Customer Reference Form (REQUIRED)

Proposer must submit three references using this form. References must be current (within the last 3 years) customer references where the proposed system has been implemented and accepted and where the Proposer's Contractor services have been successfully demonstrated.

(Copy this form as necessary to complete each reference.)

| | | |
|---|---|----------------------|
| Name of Customer: | MIGA Services Corporation | |
| Customer Address: | 1000 Peachtree Industrial Blvd. Suite 6-246 | |
| | Suwanee, GA 30024 | |
| Customer Contact Name | James Lee | |
| Customer Contact Telephone | (404) 432-3707 | |
| Customer E-mail | jlee197931@yahoo.com | |
| Date of Agreement/Contract | June, 2015 | |
| Period of Performance | From: 29 June 2015 | To: 25 July 2015 |
| | Firm Fixed Price | Not to Exceed |
| Type of Contract | Time & Material | ✓✓✓ Cost + Fixed Fee |
| | Other (Specify): | |
| | | |
| What is the dollar value of the contract? | | \$ 2,475.000 |
| If contract was terminated or cancelled for convenience, please indicate the circumstances: | | N/A |
| Is this a reference for work Proposer has performed? (Yes or No) | | Yes |
| Provide a detailed description of work that you performed for this customer, including the size of the project, specifications for the project, technology deployed, or other details. If the customer is no longer using the Proposer's technology, provide a brief description explaining the reason(s). (Attach additional sheets if necessary.) | | |
| Indoor and outdoor lighting conversion to energy efficient LED lighting fixtures for mega industrial park project. Retrofitted and installed parking lot lights, flat panels, wall packs, security lights, and other interior and exterior LED lights. | | |
| | | |
| | | |
| | | |
| | | |

ATTACHMENT G

Environmentally Preferred Procurement Program (EP3) Information Sheet (REQUIRED)

Please review the contents of this document then provide the information requested at the end of this document regarding the product and/or service offered. This document is to be submitted with your Bid or Proposal. The document will not be utilized in the determination of the overall low bidder. The complete Council Policy (4-6) can be viewed at: www.municode.com/Resources/gateway.asp?pid=14440&sid=5

Background

The City of San José has adopted an Environmentally Preferable Procurement (“EPP”) Policy (Council Policy 4-6). The goal is to encourage the procurement of products and services that help to minimize the environmental impact resulting from product consumption during the completion of services, as well as the use and disposal of products purchased. These products include, but are not limited to, those that contain recycled content, conserve energy or water, minimize waste or reduce the amount of toxic material used and disposed.

The City encourages the use of products that minimize adverse environmental and health effects and take into consideration both the costs associated with the full product life cycles.

What Is Environmentally Preferable Procurement (EPP)?

Environmentally Preferable Procurement (EPP) is a process for selecting products or services that have a lesser or reduced effect on human health and the environment when compared with competing products or services that serve the same purpose. In the simplest terms, EPP means adding environmental considerations to purchasing decisions along with such traditional factors as performance, price, health, and safety. EPP considerations include:

- Durability
- Energy and water efficiency
- Remanufactured parts and recycled content
- Ability to reuse or recycle
- Existence of harmful or dangerous chemicals.

The EPP process builds on these single attributes and encourages purchasers to examine multiple attributes such as energy efficiency **and** recycled content **and** toxicity **and** the use of renewable resources **and** other environmental attributes. The mix of attributes will depend on the specific product or service being evaluated.

The City is interested in understanding positive environmental attributes as outlined below. You may attach additional sheets as may be required.

| Product or Service Environmental Profile: | Yes | No | Detailed Product/Service Information |
|---|-------------------------------------|--------------------------|---|
| 1. Are the Products offered or utilized in providing this service certified by independent certification programs such as Energy Star, Green Seal, EcoLogo, or EPEAT? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UL, CE |
| 2. Do the Products offered or utilized in providing this service contain recycled material content? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Corn Cob / Cone Light |
| 3. Do the Products offered or utilized in providing this service reduce energy consumption? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 40 - 60% reduction |
| 4. Do the Products offered or utilized in providing this service reduce toxicity, including emissions? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | by reducing Energy consumption |
| 5. Do the Products offered or utilized in providing this service reduce water consumption? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | by reducing Energy consumption |
| 6. Do the Products offered or utilized in providing this service reduce waste? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | with longer life cycle |

ATTACHMENT H

Backhaul Specifications (IF APPLICABLE)

If proposal requires backhaul and proposer is not supplying their own private backhaul, the proposer shall provide the following information:

1. Name and address of private or public backhaul provider
2. Map or description of backhaul access points
3. Letter of intent (or equivalent) documenting agreement to provide backhaul as the responsibility of the proposer should backhaul proposal be accepted by the City

Please note: Availability of City of San José backhaul is limited. Proposer shall not assume availability of City-supplied backhaul.

ATTACHMENT I Power Specifications (IF APPLICABLE)

Proposals requiring the use of electrical power must address how power will be provided and must comply with all PG&E restrictions and regulations.

If proposal requires electrical power, the following information is required:

1. Name and address of private or public power source
2. Map or description of power access points
3. Letter of intent (or equivalent) documenting agreement to provide power should Proposal be accepted by the City

PLEASE NOTE: THERE ARE SEVERE RESTRICTIONS ON THE USE OF UNMETERED CITY STREETLIGHTS AS A POWER SOURCE. ANY CIRCUIT OR OTHER ELECTRICAL UPGRADES TO CITY INFRASTRUCTURE (INCLUDING SETTING METERS, ETC.) ARE THE RESPONSIBILITY OF THE PROPOSER. THE PROPOSER MUST RESOLVE ANY POWER ISSUES BEFORE AN AWARD OR CONTRACT WILL BE GRANTED.

ATTACHMENT J

Telecommunications Specifications (IF APPLICABLE)

Proposers submitting telecommunications proposals must submit Attachment J.

Attachment J is required for all telecommunications proposals, whether project is an installation project or payment in lieu of installation, and whether equipment will be installed on streetlights or other City property.

For telecommunications projects, the following information is required:

1. Map or description of installation locations
2. Make and model of telecommunications equipment to be installed at each location
3. Detailed specifications for the telecommunications equipment listed in #2, including power requirements, capacity, etc.
4. If equipment will be placed on streetlights, provide specifications for weight load and wind factors.
5. If backhaul is required, proposer must submit Attachment H, Backhaul Specifications.
6. If electrical power is required, proposer must submit Attachment I, Power Specifications.

ATTACHMENT K

Streetlight Control & Management System Specification Response Form (If Applicable)

Proposer shall fill in and submit this Form in their proposal if an alternate control system is proposed. "Spec Item" refers to the section numbers in Appendix 4, Wireless Controller Unit Specifications. Mark with an "X" under "Yes" to indication if the proposed solution meets the spec, otherwise mark "X" under "No". Please note location where the spec is reflected in your proposal and note any exceptions to the spec if any.

| | Spec Item | Yes | No | Proposal Response Location | Note any exceptions |
|-------------------------------|-----------|--|----|----------------------------|--------------------------------------|
| Central Mgmt System | 2.1.1 | Provide response for this item in the space provided on the back of this form. | | | |
| | 2.1.2 | ✓ | | | Text alert only for network problems |
| | 2.1.3 | ✓ | | | |
| | 2.1.4 | ✓ | | | |
| | 2.2.1 | | ✓ | | Not yet Proven |
| | 2.3.1 | ✓ | | | |
| | 2.4.1 | ✓ | | | |
| Wireless Communication System | 3.1.1 | ✓ | | | |
| | 3.1.2 | ✓ | | | |
| | 3.1.3 | ✓ | | | |
| | 3.1.4 | ✓ | | Proven in multiple cities | |
| | 3.1.5 | ✓ | | Less than OWLET | |
| | 3.1.6 | ✓ | | | |
| | 3.1.7 | ✓ | | | Only network faults |
| | 3.1.8 | ✓ | | | |
| | 3.1.9 | ✓ | | | |
| | 3.2.1.1 | ✓ | | | |
| | 3.2.1.2 | ✓ | | | |
| | 3.2.1.3 | ✓ | | | |
| | 3.2.1.4 | ✓ | | | |
| | 3.2.2.1 | ✓ | | | |
| | 3.2.2.2 | ✓ | | | |
| | 3.2.2.3 | ✓ | | | |
| | 3.2.2.4 | ✓ | | | |
| | 3.2.3.1 | ✓ | | | |
| | 3.2.3.2 | ✓ | | | |
| | 3.2.3.3 | ✓ | | | |
| 3.2.3.4 | ✓ | | | | |
| 3.2.3.5 | ✓ | | | | |
| 3.2.3.6 | ✓ | | | | |

| | | | | | |
|--|-------|---|--|--|--|
| | 3.3.1 | ✓ | | | |
|--|-------|---|--|--|--|

Please continue to the back

Item 2.1.1 Response:

Provide a description of the method and/or strategy proposed to meet the City's goal of one control system for all the streetlights in its inventory.

* See proposal main body.

3.3.1 Backhaul Options:

1. Cellular: SIM in each base-station
2. Ethernet: Connect base-station to existing network access point
3. Wi-Fi: If the City provided Wi-Fi available

ATTACHMENT L LED Luminaire Specifications (IF APPLICABLE)

Proposers shall complete the form per instructions below and submit with their proposal AND luminaire sample:

Indicate compliance or non-compliance by placing an “X” in the appropriate column. Under “Reference” write the location (Binder/Section/Page Number) of the discussion of the specification in the submittal.

STREET LIGHT

| REQUIREMENTS | | YES | NO | REFERENCE |
|------------------------------------|--|-----|----|-----------|
| GENERAL: | | | | |
| DLC Qualified Product | Product on DesignLights Consortium Qualified Products List by the sample submission date. For product listing details, see DesignLights Consortium websites. If the luminaire is not on the current DesignLights Consortium Qualified Product List by the sample submission date, then the City, in its sole discretion, may reject the proposal. | ✓ | | |
| Environmental Stewardship | Constructed with materials that minimize hazardous waste and indicate if hazardous waste disposal is provided in accordance with the European Union’s “RoHS” compliance for hazardous materials, and “Waste, Electrical & Electronic (W.E.E.) initiative or similar U.S. programs. | ✓ | | |
| LED LUMINAIRE PERFORMANCE: | | | | |
| Mesopic Luminance | • Lighting performance evaluations shall be done using the luminance metric with mesopic adjustments applied. | ✓ | | |
| | • Luminaire replacement shall be done in accordance with the City’s “Public Streetlight Design Guide – Replacement Guide”. | ✓ | | |
| Correlated Color Temperature (CCT) | 4000° K +/- 300° K. | ✓ | | |
| Wavelength Distribution Range | Percentage of emissions below 550 nm should be equal to or less than 45% to minimize adverse affects to astronomy research at the Lick Observatory verified by independent laboratory report. | ✓ | | |
| Uplight Rating/ Cut Off | • Full cutoff: UL & UH = 0 | | ✓ | cutoff |
| L70 Lifetime | Minimum 70,000 hours | ✓ | | |
| Lumen Efficacy | Minimum 90 lumens/Watt | ✓ | | |

| | | | | |
|---|---|---|--|-------------------|
| IESNA LM-79 Photometric Test and Report | <ul style="list-style-type: none"> • Shall be IESNA LM 79 tested from a CALiPER or NVLAP certified lab and provide testing documentation and photometric report that includes: <ul style="list-style-type: none"> ○ Total light output ○ Luminous intensity distribution ○ Color characteristics ○ Electrical data | ✓ | | |
| IESNA LM-80 Test and Report | <ul style="list-style-type: none"> • Shall be IESNA LM 80 tested from a CALiPER or NVLAP certified lab and include testing documentation. | ✓ | | |
| | <ul style="list-style-type: none"> • The results shall show relative (%) light output over time at 55° C, 85° C, and a third temperature of the manufacturer's choice. | ✓ | | |
| | <ul style="list-style-type: none"> • In-situ temperature test report in conformance with ANSI/UL 1598-04 (hardwired) with measurements showing that the temperature of the hottest LED junction temperature is within the recommended temperature specified by the chip manufacturer in order to conform to the L70 test data. Measurement at the nearest accessible locations are acceptable with thermal model of heat dissipation and airflow throughout the luminaire calculating the LED junction temperature. Model and test shall have at least 4 matching points for measuring and calculating temperature respectively. | ✓ | | |
| POWER SUPPLY/DRIVER: | | | | |
| Dimming Capability | 0-10 volts dimming input driver | ✓ | | |
| Power Factor | Minimum power factor of 0.90 | ✓ | | |
| Operating Temperature | Power supply shall operate between -20° C and 50° C. | ✓ | | - 40° C and 55° C |
| Frequency | <ul style="list-style-type: none"> • Output operating frequency shall be \geq 120 Hz (to avoid visible flicker). | ✓ | | |
| | <ul style="list-style-type: none"> • Input operating frequency shall be 60 Hz. | ✓ | | |
| Interference | Power supply shall meet FCC 47 CFR Part 15/18 (Consumer Emission Limits). | ✓ | | |
| Noise | Power supply shall have a Class A sound rating per ANSI standard C63.4. | ✓ | | |
| Off-state Power Consumption | Power draw of the luminaire shall not consume more than 0.5 watts when in the off-state (not including control systems). | ✓ | | |
| LUMINAIRE HOUSING: | | | | |
| Accessibility | <ul style="list-style-type: none"> • Luminaire housing shall allow tool-less entry to access: <ul style="list-style-type: none"> ○ Terminal strip for landing feeder wiring in the luminaire ○ Dimming driver ○ Over current protection | ✓ | | |
| Construction | <ul style="list-style-type: none"> • Shall be constructed of aluminum. | ✓ | | |

| | | | | |
|---------------------|---|---|--|------|
| | <ul style="list-style-type: none"> • Shall be powder-coated gray with rust resistant finish. | ✓ | | |
| | <ul style="list-style-type: none"> • All screws shall be stainless steel. | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have captive screws on any component that requires maintenance after installation. | ✓ | | |
| | <ul style="list-style-type: none"> • No parts shall be constructed of polycarbonate unless it is UV stabilized (lens discoloration shall be considered a failure under warranty). | ✓ | | PMMA |
| | <ul style="list-style-type: none"> • Luminaire circuitry shall include quick connect/disconnects to allow easy separation and removal of: <ul style="list-style-type: none"> ○ Dimming driver | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have no wire exposure | ✓ | | |
| | <ul style="list-style-type: none"> • Gaskets are permissible <ul style="list-style-type: none"> ○ Silicone sealants are not allowed | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have a minimum rating of IP66 as specified in IEC 60529, with the ability to shed water from inside the housing (i.e. weep holes). | ✓ | | |
| Cooling System | <ul style="list-style-type: none"> • Shall consist of a passive heat sink with no fans, pumps, or liquids. | ✓ | | |
| | <ul style="list-style-type: none"> • Shall be resistant to debris buildup and any build up shall not degrade the heat dissipation performance. | ✓ | | |
| Mounting | <ul style="list-style-type: none"> • Must fit on a 2-inch nominal pipe size tenon and be compatible with the City's existing streetlight mast arms per Appendix 5, Exhibit 5.A, "City Standard Detail Drawings," Drawings No. E-09 and E-10. | ✓ | | |
| | <ul style="list-style-type: none"> • Provide information on mounting of proposed street lights. | ✓ | | |
| Control Receptacle | ANSI C136.41 7-pin twist-lock receptacle. | ✓ | | |
| Weight of Luminaire | Complete assembly shall not exceed 31.5 pounds (not including control system). | ✓ | | |
| Wind Load | Maximum wind load of 2.25 square feet effective projected area. | ✓ | | |
| UL Standards | The entire luminaire assembly shall be UL listed and approved. | ✓ | | ETL |
| IEEE C62.41.2-2002 | IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits. | ✓ | | |

ATTACHMENT L LED Luminaire Specifications (IF APPLICABLE)

Proposers shall complete the form per instructions below and submit with their proposal AND luminaire sample:

Indicate compliance or non-compliance by placing an “X” in the appropriate column. Under “Reference” write the location (Binder/Section/Page Number) of the discussion of the specification in the submittal.

POST TOP

| REQUIREMENTS | | YES | NO | REFERENCE |
|------------------------------------|--|-----|----|-----------|
| GENERAL: | | | | |
| DLC Qualified Product | Product on DesignLights Consortium Qualified Products List by the sample submission date. For product listing details, see DesignLights Consortium websites. If the luminaire is not on the current DesignLights Consortium Qualified Product List by the sample submission date, then the City, in its sole discretion, may reject the proposal. | ✓ | | |
| Environmental Stewardship | Constructed with materials that minimize hazardous waste and indicate if hazardous waste disposal is provided in accordance with the European Union’s “RoHS” compliance for hazardous materials, and “Waste, Electrical & Electronic (W.E.E.) initiative or similar U.S. programs. | ✓ | | |
| LED LUMINAIRE PERFORMANCE: | | | | |
| Mesopic Luminance | • Lighting performance evaluations shall be done using the luminance metric with mesopic adjustments applied. | ✓ | | |
| | • Luminaire replacement shall be done in accordance with the City’s “Public Streetlight Design Guide – Replacement Guide”. | ✓ | | |
| Correlated Color Temperature (CCT) | 4000° K +/- 300° K. | ✓ | | |
| Wavelength Distribution Range | Percentage of emissions below 550 nm should be equal to or less than 45% to minimize adverse affects to astronomy research at the Lick Observatory verified by independent laboratory report. | ✓ | | |
| Uplight Rating/ Cut Off | • Full cutoff: UL & UH = 0 | | ✓ | cutoff |
| L70 Lifetime | Minimum 70,000 hours | ✓ | | |
| Lumen Efficacy | Minimum 90 lumens/Watt | ✓ | | |

| | | | | |
|---|---|---|---|--|
| IESNA LM-79 Photometric Test and Report | <ul style="list-style-type: none"> • Shall be IESNA LM 79 tested from a CALiPER or NVLAP certified lab and provide testing documentation and photometric report that includes: <ul style="list-style-type: none"> ○ Total light output ○ Luminous intensity distribution ○ Color characteristics ○ Electrical data | ✓ | | |
| IESNA LM-80 Test and Report | <ul style="list-style-type: none"> • Shall be IESNA LM 80 tested from a CALiPER or NVLAP certified lab and include testing documentation. | ✓ | | |
| | <ul style="list-style-type: none"> • The results shall show relative (%) light output over time at 55° C, 85° C, and a third temperature of the manufacturer's choice. | ✓ | | |
| | <ul style="list-style-type: none"> • In-situ temperature test report in conformance with ANSI/UL 1598-04 (hardwired) with measurements showing that the temperature of the hottest LED junction temperature is within the recommended temperature specified by the chip manufacturer in order to conform to the L70 test data. Measurement at the nearest accessible locations are acceptable with thermal model of heat dissipation and airflow throughout the luminaire calculating the LED junction temperature. Model and test shall have at least 4 matching points for measuring and calculating temperature respectively. | ✓ | | |
| POWER SUPPLY/DRIVER: | | | | |
| Dimming Capability | 0-10 volts dimming input driver | | ✓ | |
| Power Factor | Minimum power factor of 0.90 | ✓ | | |
| Operating Temperature | Power supply shall operate between -20° C and 50° C. | ✓ | | |
| Frequency | <ul style="list-style-type: none"> • Output operating frequency shall be \geq 120 Hz (to avoid visible flicker). | ✓ | | |
| | <ul style="list-style-type: none"> • Input operating frequency shall be 60 Hz. | ✓ | | |
| Interference | Power supply shall meet FCC 47 CFR Part 15/18 (Consumer Emission Limits). | ✓ | | |
| Noise | Power supply shall have a Class A sound rating per ANSI standard C63.4. | ✓ | | |
| Off-state Power Consumption | Power draw of the luminaire shall not consume more than 0.5 watts when in the off-state (not including control systems). | ✓ | | |
| LUMINAIRE HOUSING: | | | | |
| Accessibility | <ul style="list-style-type: none"> • Luminaire housing shall allow tool-less entry to access: <ul style="list-style-type: none"> ○ Terminal strip for landing feeder wiring in the luminaire ○ Dimming driver ○ Over current protection | ✓ | | |
| Construction | <ul style="list-style-type: none"> • Shall be constructed of aluminum. | ✓ | | |

| | | | | |
|---------------------|---|---|---|-----|
| | <ul style="list-style-type: none"> • Shall be powder-coated gray with rust resistant finish. | ✓ | | |
| | <ul style="list-style-type: none"> • All screws shall be stainless steel. | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have captive screws on any component that requires maintenance after installation. | ✓ | | |
| | <ul style="list-style-type: none"> • No parts shall be constructed of polycarbonate unless it is UV stabilized (lens discoloration shall be considered a failure under warranty). | ✓ | | |
| | <ul style="list-style-type: none"> • Luminaire circuitry shall include quick connect/disconnects to allow easy separation and removal of: <ul style="list-style-type: none"> ○ Dimming driver | | ✓ | |
| | <ul style="list-style-type: none"> • Shall have no wire exposure | ✓ | | |
| | <ul style="list-style-type: none"> • Gaskets are permissible <ul style="list-style-type: none"> ○ Silicone sealants are not allowed | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have a minimum rating of IP66 as specified in IEC 60529, with the ability to shed water from inside the housing (i.e. weep holes). | | ✓ | |
| Cooling System | <ul style="list-style-type: none"> • Shall consist of a passive heat sink with no fans, pumps, or liquids. | ✓ | | |
| | <ul style="list-style-type: none"> • Shall be resistant to debris buildup and any build up shall not degrade the heat dissipation performance. | ✓ | | |
| Mounting | <ul style="list-style-type: none"> • Must fit on a 2-inch nominal pipe size tenon and be compatible with the City's existing streetlight mast arms per Appendix 5, Exhibit 5.A, "City Standard Detail Drawings," Drawings No. E-09 and E-10. | | | N/A |
| | <ul style="list-style-type: none"> • Provide information on mounting of proposed street lights. | | | N/A |
| Control Receptacle | ANSI C136.41 7-pin twist-lock receptacle. | | | N/A |
| Weight of Luminaire | Complete assembly shall not exceed 31.5 pounds (not including control system). | ✓ | | |
| Wind Load | Maximum wind load of 2.25 square feet effective projected area. | ✓ | | |
| UL Standards | The entire luminaire assembly shall be UL listed and approved. | ✓ | | ETL |
| IEEE C62.41.2-2002 | IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits. | ✓ | | |

ATTACHMENT L LED Luminaire Specifications (IF APPLICABLE)

Proposers shall complete the form per instructions below and submit with their proposal AND luminaire sample:

Indicate compliance or non-compliance by placing an “X” in the appropriate column. Under “Reference” write the location (Binder/Section/Page Number) of the discussion of the specification in the submittal.

LED PLATE

| REQUIREMENTS | | YES | NO | REFERENCE |
|------------------------------------|--|-----|----|-----------|
| GENERAL: | | | | |
| DLC Qualified Product | Product on DesignLights Consortium Qualified Products List by the sample submission date. For product listing details, see DesignLights Consortium websites. If the luminaire is not on the current DesignLights Consortium Qualified Product List by the sample submission date, then the City, in its sole discretion, may reject the proposal. | ✓ | | |
| Environmental Stewardship | Constructed with materials that minimize hazardous waste and indicate if hazardous waste disposal is provided in accordance with the European Union’s “RoHS” compliance for hazardous materials, and “Waste, Electrical & Electronic (W.E.E.) initiative or similar U.S. programs. | ✓ | | |
| LED LUMINAIRE PERFORMANCE: | | | | |
| Mesopic Luminance | • Lighting performance evaluations shall be done using the luminance metric with mesopic adjustments applied. | ✓ | | |
| | • Luminaire replacement shall be done in accordance with the City’s “Public Streetlight Design Guide – Replacement Guide”. | ✓ | | |
| Correlated Color Temperature (CCT) | 4000° K +/- 300° K. | ✓ | | |
| Wavelength Distribution Range | Percentage of emissions below 550 nm should be equal to or less than 45% to minimize adverse affects to astronomy research at the Lick Observatory verified by independent laboratory report. | ✓ | | |
| Uplight Rating/ Cut Off | • Full cutoff: UL & UH = 0 | | ✓ | cutoff |
| L70 Lifetime | Minimum 70,000 hours | ✓ | | |
| Lumen Efficacy | Minimum 90 lumens/Watt | ✓ | | |

| | | | | |
|---|---|---|--|--|
| IESNA LM-79 Photometric Test and Report | <ul style="list-style-type: none"> • Shall be IESNA LM 79 tested from a CALiPER or NVLAP certified lab and provide testing documentation and photometric report that includes: <ul style="list-style-type: none"> ○ Total light output ○ Luminous intensity distribution ○ Color characteristics ○ Electrical data | ✓ | | |
| IESNA LM-80 Test and Report | <ul style="list-style-type: none"> • Shall be IESNA LM 80 tested from a CALiPER or NVLAP certified lab and include testing documentation. | ✓ | | |
| | <ul style="list-style-type: none"> • The results shall show relative (%) light output over time at 55° C, 85° C, and a third temperature of the manufacturer's choice. | ✓ | | |
| | <ul style="list-style-type: none"> • In-situ temperature test report in conformance with ANSI/UL 1598-04 (hardwired) with measurements showing that the temperature of the hottest LED junction temperature is within the recommended temperature specified by the chip manufacturer in order to conform to the L70 test data. Measurement at the nearest accessible locations are acceptable with thermal model of heat dissipation and airflow throughout the luminaire calculating the LED junction temperature. Model and test shall have at least 4 matching points for measuring and calculating temperature respectively. | ✓ | | |
| POWER SUPPLY/DRIVER: | | | | |
| Dimming Capability | 0-10 volts dimming input driver | ✓ | | |
| Power Factor | Minimum power factor of 0.90 | ✓ | | |
| Operating Temperature | Power supply shall operate between -20° C and 50° C. | ✓ | | |
| Frequency | <ul style="list-style-type: none"> • Output operating frequency shall be \geq 120 Hz (to avoid visible flicker). | ✓ | | |
| | <ul style="list-style-type: none"> • Input operating frequency shall be 60 Hz. | ✓ | | |
| Interference | Power supply shall meet FCC 47 CFR Part 15/18 (Consumer Emission Limits). | ✓ | | |
| Noise | Power supply shall have a Class A sound rating per ANSI standard C63.4. | ✓ | | |
| Off-state Power Consumption | Power draw of the luminaire shall not consume more than 0.5 watts when in the off-state (not including control systems). | ✓ | | |
| LUMINAIRE HOUSING: | | | | |
| Accessibility | <ul style="list-style-type: none"> • Luminaire housing shall allow tool-less entry to access: <ul style="list-style-type: none"> ○ Terminal strip for landing feeder wiring in the luminaire ○ Dimming driver ○ Over current protection | ✓ | | |
| Construction | <ul style="list-style-type: none"> • Shall be constructed of aluminum. | ✓ | | |

| | | | | |
|---------------------|---|---|---|-----|
| | <ul style="list-style-type: none"> • Shall be powder-coated gray with rust resistant finish. | ✓ | | |
| | <ul style="list-style-type: none"> • All screws shall be stainless steel. | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have captive screws on any component that requires maintenance after installation. | ✓ | | |
| | <ul style="list-style-type: none"> • No parts shall be constructed of polycarbonate unless it is UV stabilized (lens discoloration shall be considered a failure under warranty). | ✓ | | |
| | <ul style="list-style-type: none"> • Luminaire circuitry shall include quick connect/disconnects to allow easy separation and removal of: <ul style="list-style-type: none"> ○ Dimming driver | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have no wire exposure | ✓ | | |
| | <ul style="list-style-type: none"> • Gaskets are permissible <ul style="list-style-type: none"> ○ Silicone sealants are not allowed | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have a minimum rating of IP66 as specified in IEC 60529, with the ability to shed water from inside the housing (i.e. weep holes). | | ✓ | |
| Cooling System | <ul style="list-style-type: none"> • Shall consist of a passive heat sink with no fans, pumps, or liquids. | ✓ | | |
| | <ul style="list-style-type: none"> • Shall be resistant to debris buildup and any build up shall not degrade the heat dissipation performance. | ✓ | | |
| Mounting | <ul style="list-style-type: none"> • Must fit on a 2-inch nominal pipe size tenon and be compatible with the City's existing streetlight mast arms per Appendix 5, Exhibit 5.A, "City Standard Detail Drawings," Drawings No. E-09 and E-10. | | | N/A |
| | <ul style="list-style-type: none"> • Provide information on mounting of proposed street lights. | | | N/A |
| Control Receptacle | ANSI C136.41 7-pin twist-lock receptacle. | | | N/A |
| Weight of Luminaire | Complete assembly shall not exceed 31.5 pounds (not including control system). | ✓ | | |
| Wind Load | Maximum wind load of 2.25 square feet effective projected area. | ✓ | | |
| UL Standards | The entire luminaire assembly shall be UL listed and approved. | ✓ | | ETL |
| IEEE C62.41.2-2002 | IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits. | ✓ | | |

ATTACHMENT L LED Luminaire Specifications (IF APPLICABLE)

Proposers shall complete the form per instructions below and submit with their proposal AND luminaire sample:

Indicate compliance or non-compliance by placing an “X” in the appropriate column. Under “Reference” write the location (Binder/Section/Page Number) of the discussion of the specification in the submittal.

CIRCULAR AREA & STREET LIGHT

| REQUIREMENTS | | YES | NO | REFERENCE |
|------------------------------------|--|-----|----|-----------|
| GENERAL: | | | | |
| DLC Qualified Product | Product on DesignLights Consortium Qualified Products List by the sample submission date. For product listing details, see DesignLights Consortium websites. If the luminaire is not on the current DesignLights Consortium Qualified Product List by the sample submission date, then the City, in its sole discretion, may reject the proposal. | ✓ | | |
| Environmental Stewardship | Constructed with materials that minimize hazardous waste and indicate if hazardous waste disposal is provided in accordance with the European Union’s “RoHS” compliance for hazardous materials, and “Waste, Electrical & Electronic (W.E.E.) initiative or similar U.S. programs. | ✓ | | |
| LED LUMINAIRE PERFORMANCE: | | | | |
| Mesopic Luminance | • Lighting performance evaluations shall be done using the luminance metric with mesopic adjustments applied. | ✓ | | |
| | • Luminaire replacement shall be done in accordance with the City’s “Public Streetlight Design Guide – Replacement Guide”. | ✓ | | |
| Correlated Color Temperature (CCT) | 4000° K +/- 300° K. | ✓ | | |
| Wavelength Distribution Range | Percentage of emissions below 550 nm should be equal to or less than 45% to minimize adverse affects to astronomy research at the Lick Observatory verified by independent laboratory report. | ✓ | | |
| Uplight Rating/ Cut Off | • Full cutoff: UL & UH = 0 | ✓ | | |
| L70 Lifetime | Minimum 70,000 hours | ✓ | | |
| Lumen Efficacy | Minimum 90 lumens/Watt | ✓ | | |

| | | | | |
|---|---|---|--|--|
| IESNA LM-79 Photometric Test and Report | <ul style="list-style-type: none"> • Shall be IESNA LM 79 tested from a CALiPER or NVLAP certified lab and provide testing documentation and photometric report that includes: <ul style="list-style-type: none"> ○ Total light output ○ Luminous intensity distribution ○ Color characteristics ○ Electrical data | ✓ | | |
| IESNA LM-80 Test and Report | <ul style="list-style-type: none"> • Shall be IESNA LM 80 tested from a CALiPER or NVLAP certified lab and include testing documentation. | ✓ | | |
| | <ul style="list-style-type: none"> • The results shall show relative (%) light output over time at 55° C, 85° C, and a third temperature of the manufacturer's choice. | ✓ | | |
| | <ul style="list-style-type: none"> • In-situ temperature test report in conformance with ANSI/UL 1598-04 (hardwired) with measurements showing that the temperature of the hottest LED junction temperature is within the recommended temperature specified by the chip manufacturer in order to conform to the L70 test data. Measurement at the nearest accessible locations are acceptable with thermal model of heat dissipation and airflow throughout the luminaire calculating the LED junction temperature. Model and test shall have at least 4 matching points for measuring and calculating temperature respectively. | ✓ | | |
| POWER SUPPLY/DRIVER: | | | | |
| Dimming Capability | 0-10 volts dimming input driver | ✓ | | |
| Power Factor | Minimum power factor of 0.90 | ✓ | | |
| Operating Temperature | Power supply shall operate between -20° C and 50° C. | ✓ | | |
| Frequency | <ul style="list-style-type: none"> • Output operating frequency shall be \geq 120 Hz (to avoid visible flicker). | ✓ | | |
| | <ul style="list-style-type: none"> • Input operating frequency shall be 60 Hz. | ✓ | | |
| Interference | Power supply shall meet FCC 47 CFR Part 15/18 (Consumer Emission Limits). | ✓ | | |
| Noise | Power supply shall have a Class A sound rating per ANSI standard C63.4. | ✓ | | |
| Off-state Power Consumption | Power draw of the luminaire shall not consume more than 0.5 watts when in the off-state (not including control systems). | ✓ | | |
| LUMINAIRE HOUSING: | | | | |
| Accessibility | <ul style="list-style-type: none"> • Luminaire housing shall allow tool-less entry to access: <ul style="list-style-type: none"> ○ Terminal strip for landing feeder wiring in the luminaire ○ Dimming driver ○ Over current protection | ✓ | | |
| Construction | <ul style="list-style-type: none"> • Shall be constructed of aluminum. | ✓ | | |

| | | | | |
|---------------------|---|---|---|--|
| | <ul style="list-style-type: none"> • Shall be powder-coated gray with rust resistant finish. | ✓ | | |
| | <ul style="list-style-type: none"> • All screws shall be stainless steel. | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have captive screws on any component that requires maintenance after installation. | ✓ | | |
| | <ul style="list-style-type: none"> • No parts shall be constructed of polycarbonate unless it is UV stabilized (lens discoloration shall be considered a failure under warranty). | ✓ | | |
| | <ul style="list-style-type: none"> • Luminaire circuitry shall include quick connect/disconnects to allow easy separation and removal of: <ul style="list-style-type: none"> ○ Dimming driver | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have no wire exposure | ✓ | | |
| | <ul style="list-style-type: none"> • Gaskets are permissible <ul style="list-style-type: none"> ○ Silicone sealants are not allowed | ✓ | | |
| | <ul style="list-style-type: none"> • Shall have a minimum rating of IP66 as specified in IEC 60529, with the ability to shed water from inside the housing (i.e. weep holes). | | ✓ | IP65 report available Modules are IP 68 |
| Cooling System | <ul style="list-style-type: none"> • Shall consist of a passive heat sink with no fans, pumps, or liquids. | ✓ | | |
| | <ul style="list-style-type: none"> • Shall be resistant to debris buildup and any build up shall not degrade the heat dissipation performance. | ✓ | | |
| Mounting | <ul style="list-style-type: none"> • Must fit on a 2-inch nominal pipe size tenon and be compatible with the City's existing streetlight mast arms per Appendix 5, Exhibit 5.A, "City Standard Detail Drawings," Drawings No. E-09 and E-10. | ✓ | | |
| | <ul style="list-style-type: none"> • Provide information on mounting of proposed street lights. | ✓ | | |
| Control Receptacle | ANSI C136.41 7-pin twist-lock receptacle. | ✓ | | |
| Weight of Luminaire | Complete assembly shall not exceed 31.5 pounds (not including control system). | ✓ | | |
| Wind Load | Maximum wind load of 2.25 square feet effective projected area. | ✓ | | |
| UL Standards | The entire luminaire assembly shall be UL listed and approved. | ✓ | | |
| IEEE C62.41.2-2002 | IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits. | ✓ | | |

ATTACHMENT M

Local and Small Business Preference (IF APPLICABLE)

| City of San José | | | |
|---|--|--|--|
| Request for Contracting Preference for Local and Small Businesses | | | |
| <p>Chapter 4.12 of the San José Municipal Code provides for a preference for Local and Small Businesses in the procurement of contracts for supplies, materials and equipment and for general and professional consulting services. The amount of the preference depends on whether the vendor qualifies as a Local Business Enterprise* or Small Business Enterprise** and whether price has been chosen as the determinative factor in the selection of the vendor.</p> <p>In order to be a Local Business Enterprise (LBE) you must have a current San José Business Tax Certificate Number and have an office in Santa Clara County with at least one employee. If you qualify as an LBE you can also qualify as a Small Business Enterprise (SBE) if the total number of employees (<i>regardless of where they are located</i>) of your firm is 35 or fewer.</p> <p>There are two ways in which the preference can be applied. In procurements where price is the determinative factor (<i>i.e. there are not a variety of other factors being considered in the selection process</i>) the preference is in the form of a credit applied to the dollar value of the bid or quote. For example, a non-local vendor submits a quote of \$200 per item and a LBE submits a quote of \$204 per item. The LBE receives a 2.5% credit on the quote, which equals approximately \$5 and thus the LBE will win the award because the quote is evaluated as if it had been submitted as \$199.</p> <p>In procurements where price is not the determinative factor such, as an RFP, typically a variety of factors are evaluated to determine which proposal best meets the City's needs. In procurements such as these, a qualified LBE will be given 5% and a qualified SBE will be given an additional 5% of the total points in the scoring.</p> | | | |
| The following determinations have been made with respect to this procurement: (for official use only) | | | |
| Type of Procurement | <input type="checkbox"/> Bid | <input type="checkbox"/> Request for Quote | <input checked="" type="checkbox"/> Request for Proposal |
| Type of Preference | <input type="checkbox"/> Price is Determinative | <input checked="" type="checkbox"/> Price is Not Determinative | |
| Amount of Preference | LBE preference = 2.5% of Cost SBE preference = 2.5% of Cost | LBE preference = 5% of Points SBE preference = 5% of Points | |
| In order to be considered for any preference you must fill out the following statement(s) under penalty of perjury. | | | |
| Business Name | | | |
| Business Address | | | |
| Telephone No. | | | |
| Type of Business | <input type="checkbox"/> Corporation | <input type="checkbox"/> LLC | <input type="checkbox"/> LLP |
| | <input type="checkbox"/> General Partnership | <input type="checkbox"/> Sole proprietorship | <input type="checkbox"/> Other (explain) |
| <p>*LOCAL BUSINESS ENTERPRISE (LBE) PREFERENCE In order to qualify as an LBE you must provide the following information:</p> <p>Current San José Business Tax Certificate Number _____</p> <p>Address of Principal Business Office or Regional, Branch or Satellite Office with at least one employee located in Santa Clara County: _____</p> | | | |
| <p>**SMALL BUSINESS ENTERPRISE (SBE) PREFERENCE In order to qualify as an SBE you must qualify as an LBE and have 35 or fewer employees. This number is for your entire business --NOT just local employees, or employees working in the office address given above.</p> <p>Please state the number of employees that your Business has: _____</p> | | | |
| <p>Based upon the forgoing information I am requesting that the Business named above be given the following preferences (<i>please check</i>): <input type="checkbox"/> Local Business Enterprise <input type="checkbox"/> Small Business Enterprise</p> <p>I declare under penalty of perjury that the information supplied by me in this form is true and correct.</p> <p>Executed at: _____, California</p> <p>Date: _____</p> <p>Signature _____</p> <p>Print name _____</p> | | | |

ATTACHMENT N Public Agency Participation Form

Submission of Attachment N is required post-award.

Public Agency Participation

Other public agencies as defined by Cal. Gov. Code § 6500 may want to participate in any award as a result of this proposal. The City is not liable or responsible for any obligations and does not incur any financial responsibility in connection with any contract by another public agency. The public agency shall accept sole responsibility for entering into contracts and making payments to the successful respondent. If agreements are entered into by other agencies and the Contractor, Contractor shall furnish the City with an annual report showing the name of the agencies, contact person and phone number for each agency, and details of goods or services provided, including quantities. This report shall be furnished to the City on the anniversary date of the Award of the Contract. This option will not be considered in proposal evaluation.

Please indicate whether this will be granted.

Yes No

In the event that Contractor sells proposed solution to other public agencies, Contractor agrees to provide to City of San José a rebate in the amount of 1% of the additional contract sales/value.

Yes No