

CITY OF WARWICK

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

RESOLUTION OF THE CITY COUNCIL

NO: _____

APPROVED: _____ MAYOR

DATE: _____

RESOLVED, That The City Council of the City of Warwick as required by the provisions of Sections 6-11 and 6-12 of the City Charter and the Ordinance relative to competitive bidding on purchase enacted there under hereby and herewith approves the acceptance of the following bid(s):

Bid #	Name	Vendor(s) Name/Address	Contract Award	Contract Period	Note	Code
2018 - 185	Professional Services Streetlight Maintenance	<i>Prism Streetlights</i> 344 Main St., Ste. 200 Wakefield, RI 02897	\$600,000.00	3 years from date of award		

AND BE IT FURTHER RESOLVED, That such purchase or contract be awarded to the lowest responsible bidder.

THIS RESOLUTION SHALL TAKE EFFECT UPON ITS PASSAGE

RFP2018-185 Professional Services-Streetlight Maintenance

- 1 bid submitted

CODE: 67-224 Engineering/Street Lighting

MANNER OF AWARD: \$600,000.00
3 years from date of award

RECOMMEND: Prism Streetlights

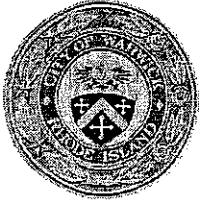
Prism Streetlights
344 Main St., Ste. 200
Wakefield, RI 02897

Pricing as Follows

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ITEM	DESCRIPTION	APPROX QTY	UNIT PRICE	TOTAL AMOUNT
1	Remove and replace luminaire			
1.A	High Pressure Sodium roadway 50W	70	\$ 184.67	\$ 12,927.04
1.B	High Pressure Sodium roadway 70W	1	\$ 163.49	\$ 163.49
1.C	High Pressure Sodium roadway 100W	835	\$ 162.44	\$ 135,633.23
1.D	High Pressure Sodium roadway 150W	1	\$ 176.09	\$ 176.09
1.E	High Pressure Sodium roadway 250W	80	\$ 200.24	\$ 16,018.80
1.F	High Pressure Sodium roadway 400W	4	\$ 181.34	\$ 725.34
1.G	High Pressure Sodium flood 250W	5	\$ 261.14	\$ 1,305.68
1.H	High Pressure Sodium flood 400W	5	\$ 273.74	\$ 1,368.68
1.I	Mercury Vapor roadway 400W	1	\$ 200.24	\$ 200.24
1.J	Mercury Vapor flood 400W	2	\$ 261.14	\$ 522.27
2	Remove and stockpile mast arm and luminaire (stockpile at City facility)			
2.A	High Pressure Sodium roadway 50W	192	\$ 68.25	\$ 13,104.00
2.B	High Pressure Sodium roadway 100W	90	\$ 68.25	\$ 6,142.50
2.C	High Pressure Sodium roadway 250W	122	\$ 68.25	\$ 8,326.50
2.D	High Pressure Sodium roadway 400W	10	\$ 68.25	\$ 682.50
3	Remove and replace existing mast arm			
			TOTAL	\$ 199,763.83
	This item shall require the contractor to provide storage units, placed on City property for storage of the mast arms and luminaires to be removed as part of Items 2.A - 2.D.	1	\$150.00/month 40' container (expect 1 needed)	
			TOTAL WITH ADD ALTERNATE	\$199,913.83
	NOTES			
	Prices include all materials, labor and the required NGRID Double-Pole Fusing Disconnects.			
	To compare prices without fuses/labor deduct \$27.70/light.			

Bid2018-185 Professional Services-Streetlight Maintenance					
The following vendors were sent specifications.					
VENDOR	ADDRESS	CITY	STATE	ZIP	
Arden Engineering Constructors, LLC	505 Narragansett Park Dr.	Pawtucket	RJ	02861	
E. W. Audet & Sons, Inc.	169 Bay St./PO Box 2039	Providence	RJ	02905	
James J. O'Rourke	21 Pine St.	Warwick	RJ	02888	
K Electric, Inc.	2646 Warwick Ave.	Warwick	RJ	02889	
PRISM-Partnership for RJ Streetlights Management	The Kenyon Bldg., 344 Main St., Ste. 202	Wakefield	RJ	02879	
RISE Engineering	1341 Elmwood Ave.	Cranston	RJ	02910	
Siemens Industry, Inc.	Eight Progress Rd.	Billerica	MA	01821	
Superior LED Light, LLC	15 N. Cobble Hill Rd.	Warwick	RJ	02886	
Tanko Streetlighting, Inc.	220 Bayshore Blvd.	San Francisco	CA	94124	



CITY OF WARWICK
DEPARTMENT OF PUBLIC WORKS
925 SANDY LANE
WARWICK, RI 02886
TEL. 401-738-2000 Ext. 6500
FAX 401-732-5208

SCOTT AVEDISIAN
MAYOR

RICHARD CRENCA
DIRECTOR

To: Patricia Peshka, Purchasing Agent

From: Richard Crenca, Public Works Director

Date: November 13, 2017

Subj: Bid2018-185 Professional Services – Streetlight Maintenance

This department has reviewed the only bid submitted and recommends award to Prism Streetlights for maintenance of City-owned streetlights. This company is experienced in this field and maintains contracts with other municipalities as well as the state of Rhode Island. This contract will cover labor and materials related to maintenance of street lights. It should be noted that no monies will be expended under this contract until the streetlights are purchased by the City of Warwick, resulting in a notable savings. The requested award is \$600,000, including the alternate bid for a storage unit, if necessary for a three year period.

TO: Honorable Council
FROM: Bruce R. Keiser, Interim Finance Director
DATE: February 23, 2018
SUBJECT: Streetlight Purchase and Maintenance

The City is proposing to acquire the 8,881 streetlights and 259 poles from National Grid as permitted by the Municipal Streetlight Investment Act (RIGL 39-30-1). The purchase price provided by NGrid is \$48,166.17 based on the depreciated value for all lights, fixtures, and poles (owned by NGrid). If approved, Warwick will join hundreds of cities and towns across the country that have taken ownership of the local streetlight system. In Rhode Island, 16 communities including Providence, Cranston, Barrington, Bristol and West Warwick have completed acquisition and have chosen to convert to LED technology. Boston, Worcester, and Springfield and many other municipalities in Massachusetts have done so as well.

Under municipal ownership, the City will be responsible for maintenance and repair/replacement. A request is before the Committee to enter into a maintenance agreement with PRISM (Partnership for Rhode Island Streetlight Management) with K-Electric, a Warwick firm, serving as subcontractor.

Benefits of City-Owned Streetlights

There is significant cost reduction to the City in taking ownership. The statute and RIPUC regulations stipulate that the tariff structure applicable to city-owned streetlight systems shall eliminate the per light annual facility maintenance charge. In Warwick the average maintenance charge for the lights and poles is \$89.14 and the total annual cost to the City is \$858,956, representing the gross savings with ownership.

New Costs

The statute enables NGrid to recapture a portion of lost revenue through petition to the RIPUC for a separate tariff rate applicable to customer-owned streetlighting. This rate is 2.7 cents / kwh greater than under the streetlight usage rate with Grid ownership. Based on NGrid data, the existing light inventory consumes 3.283 million kwh per year. At this power consumption level, City-owned lighting will generate added distribution costs amounting to \$87,148.

As the responsible party for streetlight maintenance, the City will also incur expenses for repair and replacement as needed. Based on NGrid experience, it is estimated that ten per cent of the system will require replacement each year. As noted above, the City solicited bids for an outside contractor to perform maintenance. One bid was received from PRISM/K-Electric with a proposed annual cost for labor and materials of \$199,000.

Net Savings with Ownership

The net projected annual streetlight savings are:

Eliminate Maintenance Charge	\$	858,986
S-05 rate net increase (.02654 c/kwh)		(87,148)

K-Electric maintenance	(199,000)
Net Savings	\$ 572,838

The attached spreadsheet details the projected savings.

Next Steps

In order to execute the Agreement to Purchase with National Grid RI, the City must name the certified Electrical Contractor who has been retained to perform full maintenance responsibility upon transfer of ownership of the system. If the Council awards the contract under consideration, the City will request a resolution to be placed on the March 19, 2018 agenda in support of the streetlight acquisition.

LED Conversion

To further reduce the cost of streetlights, communities have moved to improve lighting efficiency by converting the existing luminaires to LED technology. A conversion to new technology provides the ability to design a lighting system with peak and off-peak dimming controls and illumination levels tailored to public safety need and preferences. Experience has shown that the pay-back for LED conversion is averaging 7 years after which the community reaps the full efficiency savings. The estimated LED conversion cost

Warwick Streetlight Ownership - Cost Analysis

Luminaire by type	Luminaire / Pole Total by type	Luminaire / Pole Charge	Annual Maintenance Total	Annual KWH	Annual Kwh per type	Annual Distribution Charges Owned	Charges NGRID	Total NGRID Bill NGRID Owned Rate 5-14	Total NGRID Bill Cust Owned Rate S-05	Additional bill if red caps removed
							0.06413		\$ 0.09067	
LUM HPS FLD 250W	10	\$ 146.11	\$ 1,461.10	1269	12,690		813.81	\$ 2,274.91	\$ 1,150.60	
LUM HPS FLD 400W	45	\$ 181.37	\$ 8,161.65	1962	88,290		5,662.04	\$ 13,823.69	\$ 8,005.25	
LUM HPS FLD 400W TT	3	\$ 108.82	\$ 326.46	0	-		-	\$ 326.46	\$ -	\$ 533.68
LUM HPS POST 100W	835	\$ 156.80	\$ 130,928.00	493	411,655		26,399.44	\$ 157,327.44	\$ 37,324.76	
LUM HPS RWY 100W TT	90	\$ 94.08	\$ 8,467.20	0	-		-	\$ 8,467.20	\$ -	\$ 4,023.03
LUM HPS RWY 150W	2	\$ 78.58	\$ 157.16	722	1,444		92.60	\$ 249.76	\$ 130.93	
LUM HPS RWY 250W	768	\$ 120.39	\$ 92,459.52	1269	974,592		62,500.58	\$ 154,960.10	\$ 88,366.26	
LUM HPS RWY 250W TT	122	\$ 72.23	\$ 8,812.06	0	-		-	\$ 8,812.06	\$ -	\$ 14,037.35
LUM HPS RWY 400W	37	\$ 163.46	\$ 6,048.02	1962	72,594		4,655.45	\$ 10,703.47	\$ 6,582.10	
LUM HPS RWY 400W TT	7	\$ 98.08	\$ 686.56	0	-		-	\$ 686.56	\$ -	\$ 1,245.26
LUM HPS RWY 50W	6714	\$ 77.43	\$ 519,865.02	255	1,712,070		109,795.05	\$ 629,660.07	\$ 155,233.39	
LUM HPS RWY 50W TT	192	\$ 46.46	\$ 8,920.32	0	-		-	\$ 8,920.32	\$ -	\$ 4,439.20
LUM HPS RWY 70W	1	\$ 76.91	\$ 76.91	359	359		23.02	\$ 99.93	\$ 32.55	
LUM MV FLD 400W	1	\$ 181.37	\$ 181.37	1991	1,991		127.68	\$ 309.05	\$ 180.52	
LUM MV RWY 400W	4	\$ 163.46	\$ 653.84	1991	7,964		510.73	\$ 1,164.57	\$ 722.10	
	8831									
Pole										
POLE - WOOD	5	\$ 133.71	\$ 668.55					\$ 668.55		
POLE FIBER PT <25	129	\$ 260.22	\$ 33,568.38					\$ 33,568.38		
POLE FIBER RWY <25FT	60	\$ 424.14	\$ 25,448.40					\$ 25,448.40		
POLE METAL W/BASE	23	\$ 484.72	\$ 11,148.56					\$ 11,148.56		
POLE FIBER RWY => 25	2	\$ 473.53	\$ 947.06					\$ 947.06		
		\$ 358,986.14					210,560.41	\$ 1,069,566.55	\$ 297,728.45	\$ 24,278.52
					3,283,649				\$ 1,069,566.55	

Current Ngrid-owned charges	Annual Savings with all lights active	Projected cost with City-ownership	Net annual savings
\$ 1,069,566.55	\$ 747,559.57	\$ (858,986.14)	\$ 572,838.10
		\$ 297,728.45	
		\$ 199,000.00	
		\$ 496,728.45	
		\$ 572,838.10	

FIBER = Fiberglass
 FLD = Flood light or Area light
 HPS = High Pressure Sodium
 LUM = Luminaire (the light fixture)
 METAL = Aluminum or Cast Iron
 MV = Mercury Vapor
 POST/PT = Post Top
 RWY = Roadway, or Street light
 TT = Temporary Turn Off Status