

## CITY OF AZTEC REQUEST FOR QUOTATION RFQ #2019-671

DATE: 09/26/18	RETURN TO: CITY OF AZTEC Electric Department	
RFQ #: 2019-671	ATTN: RFQ #2019-671	T
DUE DATE: 10/08/18	201 W CHACO AZTEC NM 87410	THIS IS NOT AN
TIME: 10:00 am	EMAIL: graymond@aztecnm.gov	ORDER
	PHONE: (505) 334-7667 FAX: (505) 334-7684	

### NAME OF COMPANY SUBMITTING QUOTE:

NEW MEXICO IN STATE PREFERENCE	PAYMENT TERMS	F.O.B./FREIGHT TERMS	SHIPPING TIME
#	%DAYS		
In-State or Veteran's Preference will be applied to only those certified vendors who have completed item 6 or 7 below.  Number AND certificate must be provided to be considered.	NET 30 DAYS AFTER RECEIPT OF INVOICE	402 S Lightplant Rd Aztec NM 87410	By Item Below

#### NOTES TO BIDDERS: WILL NOT except equivalent, manufacture part number provided. Specification attached.

DESCRIPTION	QTY	UNIT PRICE	TOTAL	DELIVERY TIME FROM RECEIPT OF ORDER
Green Frog Systems GFS-200-30-6-SL Solar Street Light 30W	2			
Green Frog Systems GFS-200-60-6-SL Solar Street Light 60W	2			
Green Frog Systems GFS-200-75-6-SL Solar Street Light 75W	2			

Refer all questions regarding this Request for Quotation to Geri Raymond at (505) 334-7667 or email <a href="mailto:graymond@aztecnm.gov">graymond@aztecnm.gov</a>

- RFQ should be based on FOB Destination with freight allowed and must indicate normal lead time and/or best delivery date on the items listed.
- This RFQ and any required documents must be received by the Department indicated on the RFQ by the date and time indicated.
- 3. All supplies and components quoted shall be new unless indicated otherwise. Any quotes submitted for used or reconditioned supplies or components will be considered non-responsive. Quotes must be valid for a minimum of 30 days.
- 4. The RFQ Number shall appear on all quotations and related correspondence.
- 5. In–State/Resident Vendor Preference: Will only be applied to those Bidders who have been issued a certification number from the State of New Mexico Taxation & Revenue Department and return a copy of their certificate with their bid. Resident Veterans Preference is separate from the in-state preference and is not cumulative with that preference.
- 6. RFQ's may be returned via email, fax or USPS. (Reference Item #2)
- 7. By law (Section 13-1-191, NMSA, 1978) the City is required to inform Vendors of the following: (1) it is a third-degree felony under New Mexico law to commit the offense of bribery of a public officer or public employee (Section 30-24-1, NMSA, 1978); (2) it is a third-degree felony to commit the offense of demanding or receiving a bribe by a public officer or public employee (Section 30-24-2, NMSA, 1978); (3) it is a fourth-degree felony to commit the offense of soliciting or receiving illegal kickbacks (Section 30-41-1, NMSA,1978); (4) it is a fourth-degree felony to commit the offense of offering or paying illegal kickbacks (Section 30-41-2, NMSA, 1978).
- 8. Conflict of Interest: Bidder warrants that it presently has no interest and will not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of service under this contract. Bidder must notify the City's Chief Procurement Officer is any employee(s) of the requesting department or the Purchasing Office have a financial interest in the Bidder. If yes, the Bidder must specify the employee(s) name in their proposal.
- Debarment, Suspension, and Ineligibility: By submitting a response (RFQ/Bid/Offer) to this solicitation, the business (Bidder/Olfferor/Contractor) represents and warrants that it is not debarred, suspended, or placed in ineligibility under the provisions of Federal Executive Order 12549.

DATE	
SUBMITTED BY (Printed Name)	
SIGNATURE (To be valid offer, bidder must sign here)	
COMPANY NAME	
ADDRESS	
TELEPHONE	
FAX	
EMAIL ADDRESS	
FED TAX ID NUMBER	
NM CRS ID NUMBER	

# **SOLAR STREET LIGHTING**

COMPLETE DIY SOLAR STREET LIGHT KIT

# **GFS-200**

As towns and cities continue to develop at a fast pace, there's growing need for lighting in streets and public spaces to create a feeling of safety. The GFS-200° allows you to quickly and easily install powerful scalable lighting solutions with zero running costs compared with main supply. Advanced reliable technology that directly addresses the growing demands on your infrastructure.

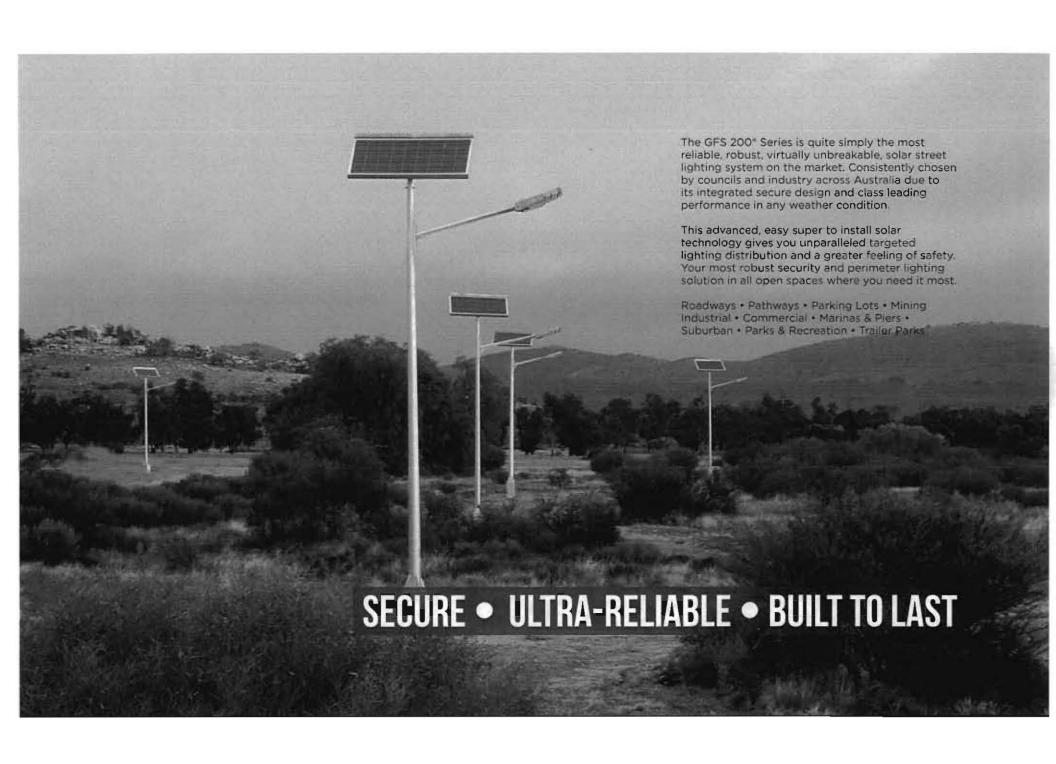














## **GFS-200**

5,610 / 11,200 / 14,025 LUMEN OPTIONS

### **FEATURES**

- Unrivaled CREE LED Technology ✓
- High Efficiency Mono-crystalline Solar Panel √
  - Complete Unit IP-65 Protected ✓
- Cyclone / Hurricane / Typhoon Weather Rating ✓
  - Advanced LED Compensation Technology √
- Intelligent Battery Management System (IBMS) √
  - Durable Construction & Quality Components ✓
    - Pole Integrated Battery Pack ✓

### **BENEFITS**

- Power to Run All Night √
- No External Cabling or Trenching Required ✓
  - Install Without Electrician ✓
  - Extreme Weather Resistance V
  - Impact Resistant & Vandal Proof ✓
  - Safe Consistent Performance & Lifespan ✓
    - Ultra Reliable Built to Last ✓
    - Zero Maintenance System ✓
      - Warranty Included ✓
    - Fully Customer Endorsed ✓
      - Smart City Ready ✓

## **OPTIONS**

- Hinged Base-Plate √
- Anti-Climbing Spike Collar ✓
  - LED Stone Guard ✓
  - Solar Panel Stone Guard √
    - Twin Head LED ✓
    - Security Camera √
    - Smart City Integration ✓
- Remote Control & Power Measurement ✓

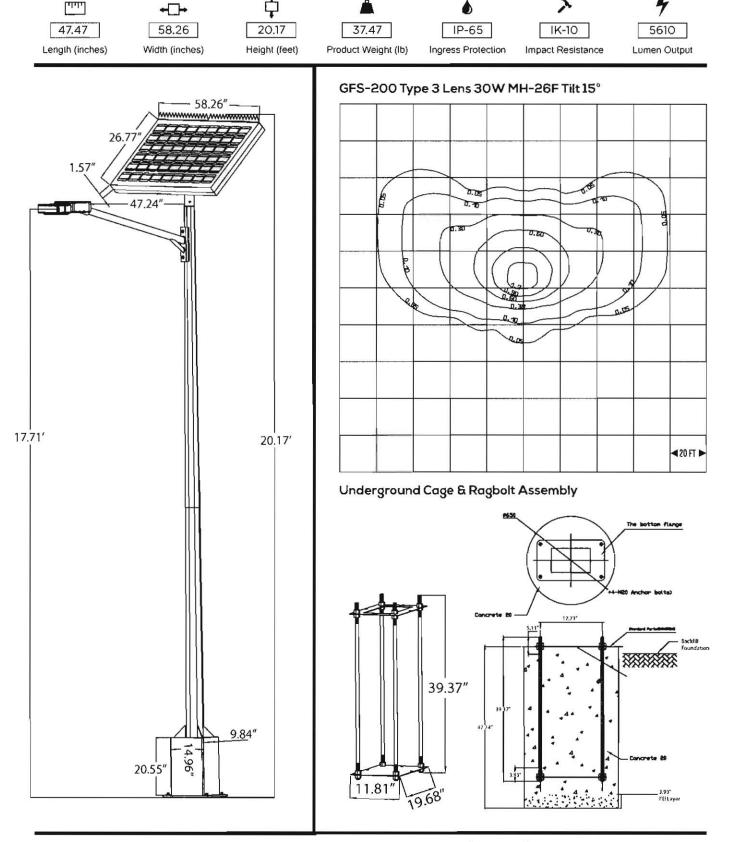
APPROVED AGENT:



SYSTEMS: SOLGELIGHTEG INDICATION Rev. 7.25, 2018 - DIM	1			1	<b>3</b>			
Description & Part Number	GFS-Halo	GFS-9-Neo	GFS-7 Guardian	GFS-15 Guardlan	GFS-Stealth	GFS-50-MSL	GFS-200	GFS-400
Solar Panel Wattage Size	W8 = W2 + WE	We.	10W	18W	WOS	2000	1 x 205W	2 x 205W = 410W
Solar Panel Efficency	3/1/4	97.56	>17%	N/1×	>24%	>24%	>213%	>21%
Solar Panel Warranty (years)	10	10	10	10	25	25	25	25.
LEB Fature - Total Lumens	022	1200	840	1440	2805	2805	5,610 / 11,226 / 14,025	11,226/14,025/18,700
Fared High Mode Watts	9	-10	1	42	13	15	30/60/75	60/75/100
Standard Dim Mode Watts	7.1	25	1.75	m	7.5	7.5	SOW All Night Long, Dimming	60W All Night Long, Dimming
Luments Per Watt (Im/km)	126	120	120	130	180	187	187	Table Sopration
Correlated Color Tombershore (CCI)	90009	30009	BODOK	X3009	doock	6000K	4000K	40000
LED Manufacturer	Epistar	Epistar	Epistal	Epistar		CHEE XP-G	CREENING	CREEXP.G
Motion Sensor	30 Second Time Delay	No	30 Second Time Delay	30 Second Time Delay	30 Second Tene Delay	Opnoral	NO	NO.
Dimming Mode	20% All Night Long = (1.2%, 344 Januari). 100% - (6W, 720 lumen). When PIR is Triggered.	100% First Hour = (100%, 1,200 humen), 80% Hours 2 8,3 = (8%, 960 humen) 60% Hours 8 8 5 = (6%, 720 humen) 25% Remaining Mght = (2.5%, 900 humen)	80% First 3 Hours = [5.6%, 672 Namen) 25% Remaining Night = [1.75%, 210 Junen) 8, 100% When PIR It Triggered (7W, 840 Junen)	80% First 3 Hours = (9.6W, 1152 Namen). 25% Remaining Naght = (31W, 360) Iumen) & 100% When PR is Traggered (12W, 1440) turnen).	505 All hight - (7.5W, 1.402 lemen). For A JO Second Boost After PIR is Traggered - (15W, 2.805 lumen). Custom Domming Programs Available.	SGN All Night = (7.5W, 1,402 human) For A 30 Second Boast After File is Triggened = (15W, 2,805 humer) Custom Dremning Programs Available.	100% All Night = 130M, 5,610 lumen), 60M and 75W Bequires Cuktors Dismining Programmes.	100% All Night = 600W, 11,220 famen) 72W and 190W/Requires Castom Dimming Programme.
Opines	Type V	Type III	Type V	TypeV	Type III or Type V	Type III or Type V	Type III or Type V	Type III or Type V
Mandard Mounting	Surface Mounted - Tiltable	Surface Mounted	2.3/8" OD Tanon - Tiltable	2.3/8" DD Tenon - Tiltable	2-3/8" DD Tenon - Fred	Surface Mounted - Fixed	On Sapulted Pole or With Out Pole Assembly - Titable	On Supplied Pole or With Out Pole Assembly - Tiltable
Fixture Material	Hack ABS Plastic	Silver Alsm. 8, ABS.	Situer & Black Alum.	Silver & Black Alum.	Black Powder Coat Alum.	Stainless Steel	Hot Disped Galuantied Steel	Hot Dipped Galvanized Steel
Fucture Size	8 98" Lx 7.28" Wx 4.25" H	23.62"1×4.53" W×2.64" H	14.75"Lx 10 88" Wx 1.25" H	24.75 Lx 10.88" W. e. 1.25" H	59" H	12.6"Lx 12.5" Wx 2,76" H	21"L+12.25"W×3.25"H	21"1x1225"We325"H
Pule Details	Excluded	Excluded	Excluded	Excluded	1111	Excluded	Two Sections Included - Galv.	Two Sections Included - Galv
Typical Facture Mounting Height	5' to 13' Feet Above Grade	3' to 10' Feet Above Grade	8' to 13' Feet Above Grade	8' to 15' Feet Above Grade	8" to 25" Feet Above Grade	8' to 25' Feet Above Grade	17' to 25' v/- Feet Above Grade	25' to 35'+/- Feet Above Grade
Typical Specifig Setween Fixtures	Custom	Custom	Custom	Custom	80° TS, 120° T3 @ 25° MH	Custom	120'@:25'MH	120° @ 25° MH
Battery Type	Integrated Li lün	Integrated Li ion	Integrated U-fon	Integrated Leton	Integrated ACT Life Pol	Integrated ACT Liferod	External Sealed Deep Cycle GEL	External Sealed Deep Cycle GEL
Battany Watt Hours WH	16.28	65.12	48.84	97.68		409.6	1800	2880
Battery Backup (hours)	13.57	11.58	18.01	21.01	54.61	54.60	60h @ 30W-5610 hm	48h @ 60W-11220 lm
Battery Volts DC	3.7	3.7	3.7	3.7	80	12.8	2X12	2 X 12
Battery Amp Hours (Ah)	4,4	17.6	13.2	26.4	32		/5×2	120×2
Average Fower (Over 12 Hrs.)		4.63	2.71			7.5	30	09
Working Times	3-5 Nghis	2 - 3 Nights	3-5 Aights	3-5 Nights	4 - S Nights	4 - S Nights	5 - 6 Nights	S-6 Nights
Working Times (hrs.)	13.6	14.1	18.0	21.0	54.6	54.6	60.0	48.0
Expected Battery Life Span (years)	3+	3+	3+	3+	**	*	+5	*
Replaceable Battery	YES	YES	YES	YES	YES	YES	YES	YES
Complete System (EPA)	0.265 SQ FT	0.433 SQ.FT	0.128 SQ FT	TH D2 214 SQ FT	0.753 SQ FT	0.242 SQ FT	5.78 SQ FT	11.5650.67
Camplete Working Temperature	(-13 Deg F to 140 Deg F)	(-13 Deg F to 140 Deg F)	(-22 Deg F to 140 Deg F)	(-22 Deg F to 140 Deg F)	(4 Deg F to 140 Deg F)	(-4 Deg F to 140 Deg F)	[4 Deg F to 140 Day F]	[-4 Day 5 to 140 Deg F]
Complete System Weight (LB)	2.5	4.5	12	20	\$4.47~11.02-45.49 Total	40	Solat Panel & Frame + 94 LBS	Solar Patiel & Frame = 175 LHS
USA Certifications	NONE	NONE	NONE	NONE	Ut Listed Components, Complete System in Process	UL Listed Components, Complete System in Process	UL Linted Components. Complete System in Process	Ut. Listed Components, Complete System in Process
Warranty Period	Complete 2-Years	Complete 2-Years	Complete 2-Years	Complete 2-Years	Complete 5-Years, 3-Year on Battery	Complete 5-Years, 3-Year on Battery	Complete 5. Years, 3. Year on Batterles	Complete 5-Years, 3-Year on Batteries
41-71-0-41-0								

## GFS-200 TECHNICALDATA





#### TECHNICAL DATA

#### GFS-200 SOLAR STREET / PATH LIGHT

The GFS 200 © Series is quite simply the most reliable, robust, virtually unbreakable, solar street lighting system on the market. Consistently chosen by councils and industry across Australia due to its integrated secure design and class leading performance.

#### **OPERATION**

Designed to give all night operation up to 14 hours per night in all weather conditions at 5610lm

#### MOUNTING HEIGHT

30 ft maximum height. Suggested height 23ft

#### LED

28 x USA made CREE XP-G led configured in 2 x 14 LED arrangement.

5610lm total output

4000K CCT, 70 CRI 187Im/w

Dual LED Module for ultimate reliability

Constant LED power output ensures consistent output all night

#### LENS

Sophisticated, indestructible polycarbonate lens allows for precise evenly distributed directional illumination output. Dual Lens design provide flexibility in lens mixing. (type 3 / 5)

Meets International lighting standards, less poles required for significantly more illumination

Dual Lens - Type 3 pathway / roadway 135\*85\* (standard)

Mix Lens - Type 3 & 5 lens 110° + 135 (optional)

#### **POLE & FRAME**

95 micron zinc coating for complete corrosion resistance

0.12" - 0.63" Galvanised Steel

#### **SOLAR PANEL**

High Grade - 21% class leading efficiency, sophisticated technology making it highly sensitive and more efficient than standard panels on the market

Impact resistance, solar panel equipped with back panel stone guard

Anti bird spike

360D adjustable solar panel facing, flexible installation and maximise solar power output

#### BATTERY

Flood proof deep cycle sealed gel battery

2 x 12V 2x75Ah (1800wh)

60 hours continuous light output in all night mode

5 days backup power\*\*

#### SMART CONTROLLER

Monitors all vitals of the unit, including LED, Solar, battery, temperature

In built soft start constant current LED driver with over voltage, over current, short circuit protection

Tri Color Controller status indicator LED

Intelligent multistage charge profile

MPPT Charging with 99% tracking efficiency

IOT Ready smart city\*\*\*

Flexible on /off programs

Auto /On /OFF set as default (on at dusk, off at dawn)

Ability to program turn on hours, before sunrise

RS485 interface with hand programmer

#### **HOUSING & PAINT**

Hot dip galvanized for complete corrosion resistance, built to last for ultra reliability

#### **OPERATING TEMPERATURE**

-4°F to 140°F (-20°C to 60°C)

#### SAIL ARFA

5.78 ft square

#### WARRANTY

5 year warranty\*\*\*\*\*

#### CERTIFICATIONS

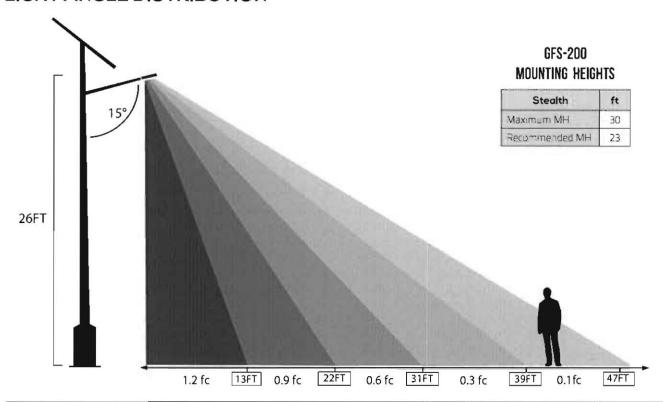
Product and component certifications listed UL E349212 LED, UL3135 Cabling, UL1598 Safety Luminaires, UL8750 LED Safety

Certified to meet ANSI/IE5 RP-8-14 and ANSI/IE5 RP-20-14 lighting standards\*



**	**Days backup is calculated on a 12 hour night time operation @ 5610 lumens
	***when Fitted with optional control system
4***	*****GFS does NOT guarantee lighting performance due to many factors outside of GFS control such as shading diet, and for ling and excessive triggiring, however based on test data from numerous installs across the world 14 Pour a night operation has been achieved in typical installs.
	"5 Year on all complinents except battery (3 year) refer to specific warranty T&Cs document

## LIGHT ANGLE DISTRIBUTION



PART NUMBER	DESCRIPTION	WEIGHT (LBS	DIMENSIONS	ORDER QUANTITY
GF5-200-30-6-SL	30W 6m Solar Street Light			
GF5-200-60-6-5L	60W firm Solar Street Light (first 6hrs 100%, remaining night orm to 13W)	655 lb	TOP POLE 0.4" x 10 L BOTTOM POLE 1.7" x 10" L SHIPPING BOX	
GF5-200-75-6-SL	75W fim Solar Street Light (first Shrs 100%, remaining night dim to 12W)		1.5 x 5.4' x 2.9'	
GF5-200-30-6-RD	30W 6m Solar Street Light			
GFS-200-60-6-RD	60W 6m Solar Street Light (first 6hrs 100%, remaining night dim to 13W)	655 lb	TOP POLE 0.4" x 10" L BOTTOM POLE 1.7" x 10" L SHIPPING BOX	
GFS-200-75-6-RD	75W 6m Solar Street Light (first 6hrs 100%, remaining night dim to 12W)		1.8 x 5.4 x 2.9	
ACCESSORIES	DESCRIPTION			ORDER QUANTITY
GFS-200-TWIN	Upgrade to Twin LED design (2x LEDs 2x outriggers 180*)	677 lb	3.93° L	
GFS-200-EXT	Add LED goose neck extension (increases 17 06 ft in to 19.68 ft)	672 lb	3.3' x 2.6'	
GF5-200-LL	Change LED lens (pathway to spherical design)	n/a	REPLACEMENT	
INSTALLATION	DESCRIPTION			ORDER QUANTITY
GFS-200-HBP	Add Hinge base pate (allow easy lifting/lowering pole)	44 lb	5.9' x 3.1' x 0.4'	
POLE COLOR	DESCRIPTION			ORDER QUANTITY
GF5-200-PC	Upgrade pole to colour powdercoating (black / green / white / silver)	n/a	n/a	
CCTV	DESCRIPTION			DRDER QUANTITY
GFS-200-CAM	CCTV 4MP Camera motonsed lens, NVR ZTB HDD, Wifi Wireless Link	n/a	n/a	
VANDAL PROTECTION	DESCRIPTION			ORDER QUANTITY
GFS-200-SGL	Stone mesh guard protection for LED	1 lb	118'x59'x12"	
GF5-200-SGS	Stone mesh guard protection for solar panel	11 15	52×27×03	
GF5-200-AC5	Anti-climbing spiles	10 lb	24 x 24 x 0.5	