

Ocean County Board of Commissioners

OFFICE OF THE OCEAN COUNTY COMMISSIONERS

Director Joseph H. Vicari
Deputy Director Gary Quinn
Commissioner Barbara Jo Crea
Commissioner Virginia E. Haines
Commissioner John P. Kelly

101 Hooper Avenue Toms River, New Jersey 08754-2191

Tel: (732)929-2005 Fax: (732)505-1918

Board Meeting Agenda

Date: August 16, 2023 - 4:00 PM

Location: Administration Building

Room 119

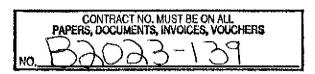
101 Hooper Avenue Toms River, NJ 08754

Agenda: Awarding Contracts for the furnishing and delivery of SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS to K. Moorea Co. LLC DBA Traffic Plan; National Highway Products, Inc.; and United Rentals (North America), Inc., the lowest qualified bidders. (B2023-139)

Official Resolution#		2	202	300	117	74		
Meeting Date			C)8/1	6/2	023	3	
Introduced Date			C)8/1	6/2	023	3	
Adopted Date			C)8/1	6/2	023	3	
Agenda Item			ŀ	-3				
CAF#			Γ					
Purchase Req. #			E	B2023-139				
Result			Adopted					
COUNTY COMMISSIONER	PRES.	ABS.		MOVE	SEC	AYE	NAY	ABST.
Vicari	V					~		
Quinn	~					~		
Crea	~			~		~		
Haines	~				~	~		
Kelly	V					~		

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

Clerk Of The Board



NRESOLUTION

August 16, 2023

WHEREAS, on June 27, 2023, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS for the County of Ocean; and

WHEREAS, at the advertised time, responses were received from the following bidders:

Name and Address of Bidder

K. Moorea Co. LLC DBA Traffic Plan 5300 Asbury Rd. Farmingdale, NJ 07727 (732) 984-1697

United Rentals (North America), Inc. 2035 State Route 34 Wall, NJ 07719 (877) 874-4468

Name and Address of Bidder

National Highway Products, Inc. 301 Riverside Drive Millville, NJ 08332 (856) 692-7572

Traffic Logix Corporation 3 Harriet Lane Spring Valley, NY 10977 (518) 744-8568

; and

WHEREAS, after receipt and examination of same, the County Purchasing Agent has now recommended to this Board that the lowest qualified bid, according to specifications, be accepted namely that of K. MOOREA CO. LLC. DBA TRAFFIC PLAN; NATIONAL HIGHWAY PRODUCTS, INC. and UNITED RENTALS (NORTH AMERICA), INC.

NOW, THEREFORE, BE IT RESOLVED by the BOARD OF COMMISSIONERS of the COUNTY OF OCEAN, STATE OF NEW JERSEY, as follows:

The Director and Clerk of this Board are hereby authorized and directed to enter into contracts, for the furnishing and delivery of Solar Powered Message Signs and Portable Light Towers for the County of Ocean, for the contract period from date of award through August 15, 2024, a period of one (1) year, OR until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract pursuant to N.J.S.A. 40A:11-15.

Introduced on: Adopted on: Official Resolution#: 2023001174

August 16, 2023 August 16, 2023

A. K. MOOREA CO. LLC DBA TRAFFIC PLAN for one (1) item, to wit: ITEM NO. 1.

This vendor has extended this contract to County Cooperative Contract System Participants.

B. NATIONAL HIGHWAY PRODUCTS, INC. for two (2) items, to wit:

ITEM NOS. 2 and 5.

This vendor has extended this contract to County Cooperative Contract System Participants.

C. <u>UNITED RENTALS (NORTH AMERICA), INC.</u> for two (2) items, to wit:

ITEM NOS. 3 and 4.

This vendor has extended this contract to County Cooperative Contract System Participants.

- 2. Payments for the equipment to be acquired by this contract shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.
- 3. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2023-139.
- 4. BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, County Department of Purchasing, Department of Finance, Engineering Department, County Road Department, and the successful bidders.

Introduced on: Adopted on:

August 16, 2023 August 16, 2023

Bid No. TBD

SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

Please note, the only acceptable file forms are as follows:

Documents (doc, docx, rtf, txt, xls, xlsx, pdf,

Images (jpg, png, bmp, tif)

K_MOOREA_LLC_W-9_2021.pdfWBENC_Cert_-_2024.pdfTRAF_-_1552_Equipment_Line_Card_R1_(002).pdf

Acknowledgement of Submission of Forms from Current Bid Package*

executed prior to the date of advertising. Failure to follow these instructions is cause for rejection package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid

Confirmed

Submission of Bid Package*

solicitation must be submitted and that failure to do so may be cause for rejection. By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response Submitting a manual response in addition to the electronic response is cause for rejection of your bid

Confirmed

PRICE TABLES

SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

on: August 16, 2023		_			
PRICE TABLES AGE SIGNS AND PORTABLE LIGHT TOWERS Quantity Unit of Measure Unit Cost Total Cost No Bid Comments August 16, 20, 2023 August 16, 20, 2023 Geo on:		1	Line Item		
TOWERS Total Cost Total Cost No Bid Comments August 16, 2023 August 16, 2023 August 16, 2023		Furnish and Delivery of New Solar Powered Message Sign, American Signal Company Model #CMS-T333 LED, No Substitutions	Description	SOLAR POWERED MESSAGE	PR
TOWERS Total Cost Total Cost No Bid Comments August 16, 2023 August 16, 2023 August 16, 2023	;	Ų	Quantity	SIGNS AND	ICE TABLE
TOWERS Total Cost Total Cost No Bid Comments August 16, 2023 August 16, 2023 August 16, 2023		ΕA	Unit of Measure	PORTABLE L	S
Fed on: August 16, 2023 August 16, 2023 August 16, 2023	,	\$20,608.00	Unit Cost		
ed on: August 16, 2023 on: August 16, 2023		\$61,824.00	Total Cost	S	
ed on: August 16, 2023 on: August 16, 2023			No Bid		
on: August 16, 2023			Comments		
Resolution#: 2023001174	on	:	Au	gust 1	6, 2023

BId - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS PROPOSAL DOCUMENT REPORT

Introduce Adopted on: Official Resolution#: 2023001174 COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 1 of 11

ITEM # 1 - PORTABLE CHANGEABLE FULL MATRIX MESSAGE SIGN, AMERICAN SIGNAL COMPANY # CMS-T333 LED, AS SPECIFIED, NO SUBSTITUTIONS

<u>COMPANY # CMS-1333 1</u>	ED, AS SPECIFIED, NO SUBSTITUTION	113	COMPLI	ANCT
			YES	NO NO
GENERAL			_	_
Full Matrix 28 pixels x 50 pi	xels		\boxtimes	
1 line, 2 line, 3 line messages	3			
Graphics and Animation				
18" - 53" characters				
Up to 12 characters per line				
9 font sizes			\boxtimes	
	rging System with 30 day nominal battery		\boxtimes	<u> </u>
life and onboard AC charger			⊠ ⊠	
Height (Raised)	162"		⊠ ⊠	
Height (Storage)	109.3"			
Length	188.3"			
Width (Storage)	79.5"			
LED Operating Temp	-22° - +165° F			
Electronics Temp. Rating	-30° - +165° F			
Sign Case Height	79.5"		⊠	
Sign Case Width	137"			
Control Console Display	Backlit LCD			
Pre-Programmed Messages	199			
User-defined Messages	199			
Message Sequences	250			_
LED DISPLAY			,	
Update Speed: Variable in .	10 sec. increments			니
LED Color: ITE Amber/Ye	llow		Ø	
18"-53" Character				
Four $(4) - (30^{\circ})$ LEDs per pi	xel		×	
OTHER:			_	
Sign raise/lower with electri	c hydraulic lift with manual backup			L
Weather tight control cabine	t with backlit LCD handheld controller		\boxtimes	Ш
The following options shall	be included in the base bid price:		_	_
2" ball or lunette eye hitch w	vith adjustable height			
Graphic User Interface (GUI				<u> </u>
AIMSTAR™ Adjustable So	lar Assembly		\boxtimes	Ш

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: AMERICAN SIGNAL CMS-T333L PCMS, WEBBEXPRESS

Warranty: 1 YEAR

Delinceron.R.OauluM@NoEH

Adopted on: August 16, 2023 Reputa Resolution August 16, 2023 Peruta Resolution August 16, 2023 Peruta Resolution August 16, 2023

PROPOSAL DOCUMENT REPORT

Bid No. TBD

SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

Acknowledgement of Submission of Forms from Current Bid Package*

executed prior to the date of advertising. Failure to follow these instructions is cause for rejection. package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid

Confirmed

Submission of Bid Package*

solicitation must be submitted and that failure to do so may be cause for rejection By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this

Submitting a manual response in addition to the electronic response is cause for rejection of your bid Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response

Confirmed

PRICE TABLES

SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

···				ĺ
ų	2	1	Line (tem	
Furnish and Delivery of SolarTech Silent Messenger II Message Board Mid-Sized, Model MB II, As Specified, or Equal	Furnish and Delivery of New Light Tower, Wacker Neuson Model #LTW20Z1, As Specified, or Equal	Furnish and Delivery of New Solar Powered Message Sign, American Signal Company Model #CMS-T333 LED, No Substitutions	Description	
2	2	ω	Quantity	
EA	EA	ĘĄ	Unit of Measure	
\$22,566.00	\$28,742.00	\$22,020.00	Unit Cost	
\$45,132.00	\$57,484.00	\$66,060.00	Total Cost	
	N		No Bid	
	ALLMAND MAXI LITE		Comments	
	2 EA \$22,566.00	2 EA \$28,742.00 \$57,484.00 pard 2 EA \$22,566.00 \$45,132.00	, American 3 EA \$22,020.00 \$66,060.00 Model 2 EA \$28,742.00 \$57,484.00 ssage Board 2 EA \$22,566.00 \$45,132.00	Furnish and Delivery of New Solar Powered Message Sign, American Signal Company Model #CMS-T333 LED, No Substitutions Furnish and Delivery of New Light Tower, Wacker Neuson Model #LTW20Z1, As Specified, or Equal Furnish and Delivery of SolarTech Silent Message Board Mid-Sized, Model MB II, As Specified, or Equal

Introduced on: Adopted on:

BIG - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

PROPOSAL DOCUMENT REPORT

August 16, 2023 August 16, 2023 Official Resolution#: 2023001174

Bid No. TBD PROPOSAL DOCUMENT REPORT

SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

		•
	5	Line Item
Equal	Trafficalm IQ1500 Permanent Mount Sign and Trailer, As Specified or	Description
	N	Quantity
	EA	Unit of Measure
	\$9,689.00	Unit Cost
	\$19,378.00	Total Cost
		No Bid
	1	Comments

BId - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

PROPOSAL DOCUMENT REPORT

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 2 of 11

√ ITEM #2 – NEW LIGHT TOWER, WACKER NEUSON MODEL #LTW20Z1, AS SPECIFIED, OR **EQUAL**

EQUAL		COMPL	I A NIZTE
		YES	NO
GENERAL			
Operating Weight	3,290	\boxtimes	
Illumination coverage at 5 fc (54 lux) ft ²	12,960		
Lamp type	Metal Halide; 4 X 1,100	\boxtimes	
Mast height in feet	30	\boxtimes	
Dimensions in transport	177" L X 75.5" W X 74.5" H	\boxtimes	
Sound level (LA) at 23 ft. in dB	71.2	\bowtie	
Power kW	20	\boxtimes	
Frequency Hz	60	\boxtimes	
Voltage V	120/240	\boxtimes	
Power Factor 1~	1	\boxtimes	
Power Factor 3~	0	\boxtimes	
Prime output kW	18.6	\boxtimes	
Voltage Control %	1	\boxtimes	
Idle to full load %	1.5	\boxtimes	
ENGINE			
Generator insulation (class)	Н	\boxtimes	
RPM/Speed RPM	1,800	\boxtimes	
Generator Model	Brushless w/ AVR	\boxtimes	
Engine/Motor Type	Liquid-Cooled, 4-Cyl. Diesel	\boxtimes	
Engine Model	Isuzu	\boxtimes	
Displacement in cubic inches	133	\boxtimes	
Operating HP/RPM	34.3/1,800	\boxtimes	
Performance Rated	SAE J1349 NET (without Fan)	\boxtimes	
Fuel tank capacity	57 gallons	\boxtimes	
Fuel consumption gallons/hour	1.58	\boxtimes	
Fully equipped highway-ready trailer		\boxtimes	
WARRANTY			
Two (2) Year bumper/bumper machine warranty		\boxtimes	
Two (2) Year/2,000 hour engine warranty		\boxtimes	

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: ALLMAND MAXI LITE Warranty: Click or tap here to enter text.

Delivery, A.R.O.: 6 MONTHS

Remarks: Click or tap here to enter text.

Introduced on: August 16, 2023 Adopted on: August 16, 2023 Official Resolution#: 2023001174

Res-Pg:1.3-9
COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 8 of 11

ITEM #5 – TRAFFICALM 1Q1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR **EQUAL**

	COMPLIAN	CE
	<u>YES</u>	<u>NO</u>
LED AND RADAR COMPONENTS		
Speed Display Height: 15" High Characters		
Configuration: Full Matrix Display	\boxtimes	
"Your Speed", or equal, Legend: 6" high highway gothic font (MUTCD Compliant) LED, ½ Cone Angel: Amber (500nM), ½ Angel, 15°, Rated 100,000 hours, 20,000		
CDA/M^2, Auto Dimming Employed		Ц
Amber LED on Axis Intensity: 20,000 CDA/SQ Meter	\boxtimes	
White LED (Cool White): ½ angel 60°, rated 100,000 hrs; 2,475 CDA/M^2, Auto Dimming Employed		
Sign Legibility: viewable range: 1,000 feet, legible range: 750 feet	\boxtimes	
Speed Resolution and Range: Min 5 mph; Max 99 mph in 1 MPH steps, Range 600 feet. (Max 140 mpg available as custom order)		
Radar Specification and Range: K-band (24, 15GHz) direct sensing, license free (FCC part 15 compliant); average range at 450 feet (plus 400' or minus 100' depending on vehicle size).	×	
MATERIALS AND CONSTRUCTION		
Chassis Size/Total Weight: 30" width X 41" height X 3" depth; 36 lbs.		
Front Face Sheeting: 3M TM Diamond Grade TM , or equal, high visibility prismatic, long life protective sheeting	\boxtimes	
Sign Face Color: yellow	\boxtimes	
Sign Mounting Construction: 3/16" thick aluminum brackets and 1/8" face;		
standard 3% tilt bracket configuration		
 Vandal resistant construction: Sealed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounted plate, The ECS shall be removable from the chassis as a complete unit. ¼" high impact polycarbonate face with high contrast mask; anti-glare graffiti and sunlight resistant Provisions for padlocking in place are provided 		
Powder coat white color	\boxtimes	
Electronics Enclosure Rating: Weatherproof; NEMA 3R	☒	

Introduced on: Adopted on:

August 16, 2023 August 16, 2023 Official Resolution#: 2023001174

NATIONAL HIGHWAY PRODUCTS, INC. Res-Pg:1.3-10 COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 9 of 11

ITEM #5 - TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)

	COMPLIA	
ELECTRICAL SPECIFICATIONS	<u>YES</u>	<u>NO</u>
Power Requirements: 12VDC (10.5 VDC to 16VDC), 23W at max brightness with maximum message displayed, 10W at average brightness with maximum message displayed.	\boxtimes	П
,		_
Voltage Requirements: 9V-30VDC, 12VDC Nominal (Battery protection at 11.5 VDC and 10.8VDC; startup at 12.3VDC)		
Power Options: • Solar Kits: 150W kits • Battery charger kits and battery boxes shall be supplied		
Operating Temperature: Internal components: -29°F to +165°F	\boxtimes	
Warranty: 3 year limited warranty on sign and options (excluding batteries)	\boxtimes	
SOFTWARE		
SafetyCalm™ or equal, license free	\boxtimes	
Event Logging with Time Stamp: Event data: 60 days with a circular buffer; applied voltage (VDC): internal temperature (°F); ambient light (lux); display functional status; traffic status; shock sensor events; parameter events	\boxtimes	П
Vehicle Data Logging Capacity: Speed data 90 days with circular buffer (oldest		Ц
reading replaced by newest) based on 24/7 operation	\boxtimes	
Programmable Display Features:		
 Minimum speed limit, speed limit, over speed, and maximum speed to display 		
 Display type: blank (stealth mode); actual speed; speed limit; flashing digits; steady digits; external beacon control 	\boxtimes	
Schedules: Repeating daily: nine (9) events; repeating weekly; nine (9) events; non-repeating dated: nine (9) events (27 events in each 24 hour period, 365 days per	_	_
year while powered)		
Communications: Remote access through secure network System Requirements:		
 Operating System: Compatible with Windows 10 Screen resolution: 1024 X 768 or better 		
 Communications interfaces: Bluetooth class 1 or 2 adapters (capabilities V1.0, V1.2, V2.0, V2.1+EDC) 	\boxtimes	

NATIONAL HIGHWAY PRODUCTS, INC. Res-Pg:1.3-11 COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 10 of 11

ITEM #5 - TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR **EQUAL (CONT'D)**

	COMPL	IANCE
TRAILER	<u>YES</u>	<u>NO</u>
Weight: 353 Lbs with Solar and 150Ah batteries; Weight is with battery <i>installed</i>		
Size: Folded and ready for travel 46" wide X 48" long (86" with tongue extended)	_	_
X 38" Tall; Erected with Solar: 88" Tall	\square	
Tire Size: 14"	\boxtimes	
Color: Powder Coated white	\boxtimes	
Warranty: Assembly warranted against manufacturer defect for three (3) years; excluding batteries and tires	⊠ .	
Basic Features:		
Brake Lights and turn signals are provided	\boxtimes	
 Metal fenders strong to support minimum of 250 lbs., Powder coat finish for corrosion resistance 		
 Tongue shall be properly sized to ensure easy towing using a 2" ball 	\boxtimes	
Controls:		
 Control panel provided to operate the connections to the solar panel and sign 	Ä	
Safety/Security:		
 Meets DOT regulations & requirements Safety chains shall be provided 		
 Ball hitch system is stowed & secured when not towing; hitch beam collapses and locks into trailer body or shall be removable 	\boxtimes	
Stabilizers:		
 Provided with two (2) drop-down stabilizers that drop to the level of grade & are secured by pins and one (1) hand-crank stabilizer. Stow in fully retracted position secured by pins for travel 	\boxtimes	П
Static Regulatory Signs: speed is 25 mph on base; placards are 1,3,0,4 which allow		Ļ .
speeds from 05-45 mph		
ELECTRICAL SPECIFICATIONS		
Batteries:		
Includes two (2) 75Ah batteries		
Each battery shall be individually fused	9	
 Negative terminal of each battery shall be electrically common to the trailer chassis 		
Cushioned battery mount to reduce vibration and shock		
Battery Box:		
Housed in weatherproof chamber separate from battery compartment Single I from a proposed and the separate from th		
• Sealed from air movement with provisions for thermal transfer, moisture Introduceontrol and djainage023	\boxtimes	
Adopted on: August 16, 2023	لاعا	ب

NATIONAL HIGHWAY PRODUCTS, INC. COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 11 o ITEM #5 – TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL (CONT'D) **COMPLIANCE** YES NO TRAILER (Cont'd) ELECTRICAL SPECIFICATIONS (Cont'd) Integrated Solar Charging: 60 Watt Solar Panel Solar Panel shall be deployed to a position higher than the sign Solar Panel shall stow flat over the sign for optimal skyward exposure 20A Solar Charge Control Device (14.4 V regulation temperature compensating)

□ Wiring:

Wire is properly sized; rated 194°F minimum

All interconnecting cables and writes are routed through the frame or in conduit \boxtimes for protection

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: TRAFFICALM IQ1500 Warranty: Click or tap here to enter text.

Delivery, A.R.O.: 12 WEEKS

Remarks: Click or tap here to enter text.

Introduced on: Adopted on:

August 16, 2023 August 16, 2023 Official Resolution#: 2023001174

UNITED RENTALS (NORTH AMERICA), INC.

Bid No. TBD PROPOSAL DOCUMENT REPORT

SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

	_	2
5	4	Line item 3
Trafficalm IQ1500 Permanent Mount Sign and Trailer, As Specified or Equal	Furnish and Delivery of SolarTech Silent Messenger Full Size Message Board, Model M8 III, As Specified, or Equal	Description Furnish and Delivery of SolarTech Silent Messenger II Message Board Mid-Sized, Model MB II, As Specified, or Equal
	2	Quantity 2
EA	ΕA	Unit of Measure EA
No Bid	\$17,955.00	Unit Cost \$19,241.00
No Bid	\$35,910.00	Total Cost \$38,482.00
X		No Bid
	AS SPECIFIED: SOLAR TECH MBIII	Comments AS SPECIFIED: SOLAR TECH MBII

UNITED RENTALS (NORTH AMERICA), INC. Res-Pg:1.3-14 COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 3 of 11

/ITEM #3 - SOLARTECH SILENT MESSENGER II MESSAGE BOARD MID-SIZED, MODEL MB II WITH TRAILER, AS SPECIFIED OR EQUAL

WITH TRAILER, AS STECHTED OR EQUAL		
	COMPLI YES	ANCE NO
DISPLAY PANEL Panel Size: 92" X 54"	\boxtimes	
Pixel Array/Size: 27" X 48" pixel array with 1.77" pitch	⊠	
Character Height: 9" to 46"		. 🗆
Panel Construction: all aluminum, modular construction	\boxtimes	
Panel Face: 3/16" polycarbonate, non-glare	\boxtimes	
Characters per line: up to twelve (12)	×	
Graphics capability: full matrix with full animation	⊠ ⊠	
Display Technology: LED (amber, 592 mm)	⊠ ⊠	
Display Brightness: > 10,000 candela per square meter Display Life Expectancy: 10 years typical		
Viewing Angle: >30°	\boxtimes	
TRAILER		
Length Overall (operating):112" (284 cm)	\boxtimes	
1,000 lb. automatic brake, winch & cable		
Length Overall (towing): 112" (284 cm)	\boxtimes	
Width Overall 92" (234 cm)		
Width Across: Fenders 75" (191 cm)		
Height Traveling: 92" (234 cm)	\boxtimes	
Ground Clearance: 13" (33 cm)	\boxtimes	
Height Operating: 142" (360 cm)	\boxtimes	
Weight of Panel: 1,560 lbs. (708 kg)		
Coupler: 2" (SO mm) ball or 2.5" (64 mm) pintle ring	\boxtimes	
Lifting Mechanism: 1,000 lb. automatic brake, winch & cable		
Axle/Suspension: (for both) Torq flex, independent		
Tires: Load Range C; 13 inch wheels with 5-lug pattern		
CONTROL CONSOLE		
Console Circuitry: Ultra-low power solid state	Ø	
Console Touchscreen: Weather-resistant, backlit, full-color GUI, intuitive icon-driven, multi-lingual	×	
Programming Software: Proprietary, field upgradable for units not	_	_
connected to Command Center		
Message Capacity: Pre-programmed and user-defined (> 250 each)	Ø	
Message Display Time: User-selectable (0.1 to 99 seconds)	⊠ ⊠	
Distributed on: August 16, 2023 Adopted on: August 16, 2023 None Mastile Menagyou 64GB Micro SD card	⊠ ⊠	

UNITED RENTALS (NORTH AMERICA), INC.

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 4 of 11

<u>ITEM #3 - SOLARTECH SILENT MESSENGER II MESSAGE BOARD MID-SIZED, MODEL MB II</u> WITH TRAILER, AS SPECIFIED OR EQUAL

	<u>COMPL</u>	LANCE
COMPOST COMOST COM	$\underline{\mathbf{YES}}$	<u>NO</u>
CONTROL CONSOLE (Cont'd) Reservoir Protections Many coloratelle serviti level	፟	
Password Protection: User-selectable, multi-level	⊠ ⊠	
Operator Interface: Easy-to-use icons (no manual required) Connectivity: Supports NTCIP version 3 via UDP/IP over Ethernet,		
and PMPP over RS-232		
Units with Remote Communications Option: UDP/IP	K-N	
over the built-in cellular modem	\boxtimes	
	_	
ENERGY SOURCE		
Operating Voltage:12 Volts DC (nominal)	\boxtimes	
Battery Type: 6 Volt heavy duty, deep cycle (GC-2)	\boxtimes	
Number of Batteries: Four (4) standard lead acid (flooded)	\boxtimes	
Battery Bank Capacity: 520 amp hours	\boxtimes	
Battery Status Indicator: Displays battery voltage, charging activity and		
low battery condition		
Solar Array Construction: Top-mounted solar panels in aluminum frame	_	_
Solar Array Power Output: Standard 160 watt (nominal)	\boxtimes	
Solar Charge Controller: Automatic, temperature compensated, MPPT	ic-m2	
(Maximum Power Point Tracking)	×	
BRAKES		
Hydraulic Surge Brakes (5,000 lb. Capacity)	\boxtimes	
Electric Brakes		
SOLAR ARRAY		
220 amp tilt and rotate solar panels	\boxtimes	
BATTERY CHARGER		÷
	×	<u> </u>
55 amp battery charger		Ы
BATTERY SECURITY		
Battery compartment with padlocks	\boxtimes	
PAINT		
Powder coated orange color		

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: SOLARTECH MBII

Warranty: 5 YEAR LIMITED WARR. FROM DATE OF SALE, 6 YEARS FROM DATE OF MFR

Delivery, A.R.O.: 2-3 WEEKS ARO Introduced on: August 16, 2023 Remarks: N/A August 16, 2023 Official Resolution#: 2023001174

UNITED RENTALS (NORTH AMERICA), INC.

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ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL

WITH TRAILER, AS STECIPIED OR EQUAL		
	COMPLIANCE YES NO	
DISPLAY	<u> </u>	<u>NO</u>
Panel Size: 126" x 76" (320 cm x 193 cm)	\boxtimes	
Panel Construction: All aluminum, modular construction		
Panel Face: 3/16" polycarbonate, non-glare	\boxtimes	
Matrix Size: 27 x 48 pixels	\boxtimes	
Pixel Pitch: 2.6" x 2.6" (66 mm x 66 mm)	\boxtimes	
Number of Fonts: Twelve (12)	\boxtimes	
Character Height: 13" to 68" (33 cm to 173 cm)	\boxtimes	
Graphics Capability: Full matrix with full animation	\boxtimes	
Display Technology: LED (amber, 592 nm)	Ø	
Display Brightness: > 10,000 candela per square meter	\boxtimes	, 🗆
Viewing Angle; >30°	\boxtimes	
Display Life Expectancy: 10 years typical	\boxtimes	
Lifting Mechanism: 2,000 lb. capacity electro-hydraulic		
TRAILER		
Length Overall: 180" (457 cm)	\boxtimes	
Width Overall: 92" (234 cm)	\boxtimes	
Height Traveling: 103" (262 cm)	\boxtimes	
Height Operating: 162" (412 cm)	\boxtimes	
Ground Clearance: 13" (33 cm) minimum	⊠	
Weight (minimum): 2,400 lbs. (1,089 kg)	\boxtimes	
Weight (maximum): 2,960 lbs. (1,343 kg)	\boxtimes	
Coupler (Class 111): 2" (SO mm) ball or 3" (76 mm) pintle ring		
Axle/Suspension: (both) Torq flex independent	\boxtimes	
Tires: Load Range C; 13 inch wheels with 5-lug pattern	×	
MEGA-TECH CONTROL CONSOLE		
Console Circuitry: Ultra-low power solid state	\boxtimes	
Console Touchscreen Weather-resistant, backlit, full-color GUI,		
intuitive icon-driven, multi-lingual, field upgradable (for units not	K7/	
connected to Command Center) Introduced on: August 16, 2023 Message Gapacity: Augustone gazanmed and user-defined (> 250 each) Official Resolution#: 2023001174		

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ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL (CONT'D)

	COMPLIANCE	
MECL PECH CONTROL CONCOLE (C	<u>YES</u>	<u>NO</u>
MEGA-TECH CONTROL CONSOLE (Cont'd)	K	1
Message Display Time: User-selectable (0.1 to 99 seconds)		
Display Update Time: Instantaneous		. ப
Non-Volatile Memory 16 GB Micro SD card		
Password Protection: User-selectable, multi-level	☒	
Operator Interface: Easy-to-use icons (no manual required)	\boxtimes	
Connectivity: Supports NTCIP version 3 via UDP/IP over Ethernet, and PMPP over RS-232	⊠	
Units with Remote Communications Option: UDP/IP over the built-in		
cellular modem.	\boxtimes	
ENERGY SOURCE		
Operating Voltage: 12 Volts DC (nominal)	\boxtimes	
Battery Type: 6 Volt heavy duty, deep cycle (GC-2)	\bowtie	
Number of Batteries Four (4) standard lead acid (flooded)	×	
Battery Bank Capacity: 520 amp hours		
Battery Status Indicator: Displays battery voltage, charging activity		
low battery condition	×	
Solar Array Construction: Top-mounted solar panels in aluminum frame	×	
Solar Array Power Output: Standard 160 watt (nominal)	\boxtimes	
Solar Charge Controller: Automatic, temperature compensated (Maximum Power Point Tracking)		
BRAKES		
Hydraulic Surge Brakes (5,000 lb. Capacity)	×	
Electric Brakes		
SOLAR ARRAY		
220 amp tilt and rotate solar panels	⋈	
BATTERY CHARGER	_	
55 amp battery charger	\boxtimes	L
BATTERY SECURITY		
Battery compartment with padlocks Adopted Resolution#: 2023001174		

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ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE YES NO

PAINT

Powder coated orange color

 \boxtimes

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: SOLARTECH MBIII

Warranty: 5 YEAR LIMITED WARR. FROM DATE OF SALE, 6 YEARS FROM DATE OF MFR

Delivery, A.R.O.: 2-3 WEEKS ARO

Remarks: N/A

Introduced on: Adopted on:

August 16, 2023 August 16, 2023

Official Resolution#: 2023001174