

## HONOLULU BOARD OF WATER SUPPLY (BWS) REQUEST FOR SOLE SOURCE

DATE: MAY 9, 2018

TO: ERNEST Y. W. LAU, P.E.  
MANAGER AND CHIEF ENGINEER

VIA: VICKI KITAJIMA  
PROCUREMENT AND SPECIFICATIONS SPECIALIST VI

FROM: MIKE FUKU  
ACTING PROGRAM ADMINISTRATOR, FIELD OPERATIONS

SUBJECT: REQUEST FOR SOLE SOURCE AWARD

Pursuant to Section 103D-306, of the Hawaii Revised Statutes (HRS) and Subchapter 9, Chapter 3-122 of the Hawaii Administrative Rules, I am requesting that a sole source award be approved to purchase the following:

Coordinated Wire Rope of Hawaii, Inc.  
120 Mokauea Street, Suite F  
Honolulu, HI 96819-3156

**Amount of the Contract:** Estimated Contract Amount of \$7,000.00

**Term of the contract:** One-time purchase.

**Prior Sole Source Contract numbers and dates:** None

**Description of goods to be purchased:**

1. Endless Slings

**Explanation how the unique features, characteristics or capabilities are required for BWS use:**

The Board of Water Supply has been using heavy-duty endless slings for years in lifting of ductile pipes and other large materials. There are companies that offers endless slings, but Coordinated Wire Rope of Hawaii (CWR) offers slings that are UV protected and reduces only to 15% of its workload limit when wet.

Field Operation uses slings that will be constantly wet and exposed to the sun for long lengths of time. The strength of other products have failed at a faster rate. The CWR endless slings will not break down fast as others based on past usage. The CWR endless slings will help insure the overall safety of the field personnel.

Coordinated Wire Rope of Hawaii is the sole authorized distributor for the equipment to be purchased.

#18-35

**Other possible sources for the goods**

None

I certify that the information provided above is to the best of my knowledge, true, correct and that the goods described above are available through only one (1) source.

Direct Questions to: Michael Fuke

Phone: (808) 748-5505

<u>Quennell Lavette</u>	<u>Wayne Tubb</u>
Requestor	Division Head
<u>5-10-18</u>	<u>5/10/18</u>
Date	Date

Posting dates pursuant to Hawaii Administrative Rules Section 3-122-82: MAY 29 2018  
to JUN - 6 2018

**REVIEWED AS TO PROCUREMENT FORM:**

<u>Vicki A. Kitajima</u>	<u>6/6/18</u>
VICKI KITAJIMA	Date
Procurement & Specifications Specialist VI	

**CERTIFIED AS TO AVAILABILITY OF FUNDS:**

<u>[Signature]</u>	<u>5-22-18</u>
FINANCE <u>RR</u>	Date
<u>5/21/2018</u>	

**APPROVED AS RECOMMENDED/ NOT APPROVED:**

<u>[Signature]</u>	<u>6/7/18</u>
ERNEST Y. W. LAU, P.E.	Date
Manager and Chief Engineer	

Attachments

**BOARD OF WATER SUPPLY  
CITY AND COUNTY OF HONOLULU**

May 29, 2018  
(Date Notice Posted)

NOTICE OF INTENT TO ISSUE A SOLE SOURCE AWARD

The Manager and Chief Engineer is reviewing a request to make a sole source award to Coordinated Wire Rope of Hawaii, Inc. to provide polyester max edge web slings.

The award shall be made to:

Name of Vendor: Coordinated Wire Rope of Hawaii, Inc.

Address of Vendor: 120 Mokauea Street, Suite F  
Honolulu, HI 96819-3156

Amount of the contract: \$7,000.00 estimated

Direct any inquiries to: Vicki A. Kitajima

Address: Board of Water Supply  
Procurement Office  
630 South Beretania St.  
Honolulu, HI 96843

Telephone No.: (808) 748-5071

Fax Telephone No.: (808) 550-9193

Submit written objection(s) to this Notice of Intent to Issue a Sole Source Award contract within seven (7) calendar days from the date this notice was posted to:

Manager and Chief Engineer  
Board of Water Supply  
630 S. Beretania St., Room 201  
Honolulu, HI 96843

Telephone No. (808) 748-5071

Sole Source Reference No.: BWS 18-10-SS

## CWR HAWAII

120 Mokauea Street, Honolulu, Hawaii 96819  
Phone: 808-843-2020 Fax: 808-842-3030  
Email: allen@cwrhawaii.com



April 10, 2018

Board of Water Supply  
Attention: Dee Gruetter  
Email: dgruetter@hbws.org

To Whom this may concern,

This letter is regarding our polyester max edge endless web slings. CWR Hawaii manufactures and distributes polyester max edge endless slings locally and there are currently no other distributors in Hawaii offering this type of sling.

I've also attached a technical data sheet for polyester webbing. If you have any questions or would like to further discuss, please email or call me.

Sincerely,

A handwritten signature in black ink that reads "David L. Tavares Jr." in a cursive style.

D. Allen Tavares Jr.  
Operations Manager/Quality Control  
Cell Phone: 808-216-5704

# Chemical Considerations

It is important to select slings and components possessing proper chemical characteristics, making them compatible with their environment. Nylon, Polyester, Aramid, Nomex®, Poly-Arylate (Liquid Crystal), Ultra High Molecular Polyethylene (UHMwPE) and K-Spec® fibers are ideal materials for synthetic slings because they offer varying degrees of resistance and compatibility with different chemical agents.

## PERFORMANCE CHARACTERISTICS OF SYNTHETIC FIBERS

### NYLON

Nylon is popular and general purpose synthetic fiber which is unaffected by common grease and oil. Nylon products have good resistance to aldehydes, hydrocarbons, ethers and some alkalis, while degradation ranging from none to moderate occurs with exposure to certain alkalis. Nylon products are not suitable for use with acids and bleaching agents. Exposure can result in degradation from none to total. Dilute acids, such as, hydrochloric and sulfuric in 10% concentrations at room temperature cause significant strength loss in 10 hours.

Solvents for nylon include: concentrated formic acid, phenolic compounds and calcium chloride in methanol at room temperature, hot solutions of zinc chloride in methanol, benzyl alcohol at the boil, hot solutions of calcium chloride in: glacial acetic acid, ethylene chlorohydrins and ethylene glycol.

Nylon is not significantly affected by compounds of the following classes: alcohols, dry cleaning solvents, halogenated hydrocarbons, ketones, soaps and synthetic detergents or water (including sea water).

Nylon products lose 15% of their Work Load Limit when wet. The acceptable temperature exposure range is -40°F/-40°C to a maximum of 194°F/90°C. Stretch at Work Load Limit is approximately 8-10% for slings with treated webbing.

All webbing will become shorter, over time. Nylon webbing placed on a table, with no use, will shrink up to 5% in length after six months, as a result of the weave configuration. Dense weave webbing shrinks less than loose weave webbing. Nylon webbing will shrink more than polyester webbing. Other factors that affect shrinkage are humidity, temperature and usage.

### POLYESTER

Polyester is not significantly affected by most compounds of the following classes: alcohols, dry cleaning solvents, halogenated hydrocarbons, ketones, soaps and synthetic detergents or water (including sea water). Polyester also has good to excellent resistance to aqueous solutions of most weak acids at the boil and to most acids at room temperature, but is disintegrated by concentrated sulfuric acid (95%) at room temperature and exposure to alkalis. Polyester products also have some resistance to most aqueous solutions at room temperature, but are degraded by the same solution at the boil. Oxidizing agents and bleaching treatments ordinarily used by the textile industry do not degrade polyester fiber. Stretch at Work Load Limit is approximately 5-7% for slings with treated webbing. Polyester does not lose strength as a result of moisture absorption. The acceptable temperature exposure range is -40°F/-40°C to a maximum of 194°F/90°C.

### ARAMID

Aramid fibers are resistant to most weak acids, alkalis, ketones, alcohols, hydrocarbons, oils and dry cleaning solvents. Strong acids, bases and sodium hypo-chlorite bleach attack Aramid fibers, particularly at elevated temperatures and/or high concentrations. Stretch at Work Load Limit is approximately 1%.

### K-SPEC®

K-Spec® is a combination of High Molecular Polyethylene and Aramid fibers. Stretch at Work Load Limit is approximately 1% and the acceptable temperature exposure range is -40°F/-40°C to a maximum of 180°F/82°C. K-Spec® core yarn strength retention is based on test results of components at 150°F/65°C (or less) for 6 months. K-Spec® has a 100% strength retention when exposed to: age, 10% detergent solution, rot and mildew, sunlight and toluene; 99% retention when exposed to: acetic acid, gasoline, hydrochloric acid 1m, hydraulic fluid, kerosene and sea water; 98% retention when exposed to: 25% ammonium hydroxide, 10% hypophosphite solution, and 40% phosphoric acid; 97% retention when exposed to sodium hydroxide 5m; 95% retention when exposed to Portland cement, and 88% retention when exposed to Clorox® bleach and nitric acid.

# Chemical Considerations

## PERFORMANCE CHARACTERISTICS OF SYNTHETIC FIBERS

### ULTRA HIGH MOLECULAR POLYETHYLENE (UHMwPE)

Resists many chemical agents and retained 100% of the original fiber strength when immersed for 6 months in the following:

- 1M Hydrochloric acid
- 5M Sodium Hydroxide
- Perchloroethylene
- Glacial acetic acid
- Ammonium Hydroxide (29%)
- Gasoline
- Toluene
- Kerosene
- Hypophosphite solution (10%)
- Sea water
- 10% detergent solution
- Hydraulic fluid

Clorox® degraded UHMwPE by approximately 10% after a 6 month immersion test.

Stretch at Work Load Limit is approximately 1% and maximum temperature exposure is 140°F/60°C.

### NOMEX®

Nomex® is resistant to most ketones, alcohols, dry cleaning solvents and many other organic solvents. Its acid resistance is superior to nylon, but is not as good as polyester. Nomex® shows good resistance to alkalis at room temperature, but is degraded by strong alkalis at higher temperatures.

Nomex® is compatible with fluorine-containing elastomers, resins and refrigerants at high temperatures and is resistant to fluorine compounds in concentrations usually encountered in stack gases from metallurgical and rock-processing operations.

The resistance of Nomex® to oxides of sulfur at temperatures above the acid dew point is superior to polyester. Below the dew point, concentrated sulfuric acid may condense on the fiber and cause a progressive loss of strength.

## FIBER CHARACTERISTICS

	Nylon	Polyester	Aramid	Poly-Arylate	UHMwPE	K-Spec®
<b>Fiber Properties</b>						
Tenacity - Dry G/D	7.5 - 10.5	7.0 - 10.0	28	26 - 29	35 - 40	35
Tensile 000 psi	113 - 158	123 - 176	90	424 - 525	397 - 546	472.5
Elongation at Break %	15 - 28	12 - 18	4.6	3.8	3.5 - 3.8	3.8
Moisture Regain %	4.0 - 6.0	<0.5	2	<0.10	0	0
Specific Gravity	1.14	1.38	1.38	1.41	.97	1.11
Bulk Strength	1.0	0.9	2.7	2.8	2.8	2.8
<b>Chemical Resistance</b>						
Solvents	Good	Good	Excellent	Excellent	Excellent	Excellent
Acids						
Dilute:	Good	Good	Good	Excellent	Excellent	Excellent
Concentrated:	Fair	Fair	Good	<90%	Excellent	Excellent
Alkalis						
Dilute:	Excellent	Good	Good	Excellent	Excellent	Excellent
Concentrated:	Excellent	Fair	Good	<30%	Excellent	Excellent
<b>Temperature Tolerance</b>						
Melt Point	425°F	490°F	900°F	625°F	300°F	320°F
	218°C	254°C	482°C	330°C	149°C	160°C

Please Note: Conventional Synthetics are not to be used at temperatures exceeding 194°F/90°C).

**ALWAYS FOLLOW RECOMMENDATIONS ON SLING WARNING TAG.**



# Coordinated Wire Rope of Hawaii, Inc.

PAGE	1
ORDER	1053488
DATE	5/10/18
STATUS	QUOTE
SLSM	
CUSTOMER	49000-08
PLACED BY	jad

### Oahu

120 Mokauea Street · Suite F  
Honolulu, HI 96819-3156  
Ph. (808) 843-2020  
Fax (808) 842-3030



### Maui

221 S. Wakea Avenue, Unit A116  
Kahului, Maui, HI 96732  
Ph. (808) 873-8181  
Fax (808) 873-8282



### Big Island

231 Makaala Street, Unit 2  
Hilo, HI 96720  
Ph. (808) 933-6774  
Fax (808) 933-6775

QUOTATION EXPIRATION DATE IS:	7/10/18	INQUIRY:	DEE'S QUOTE
-------------------------------	---------	----------	-------------

TERMS:	NET 30
--------	--------

**BILL TO:**

CITY & COUNTY OF HONOLULU  
BOARD OF WATER SUPPLY  
630 SOUTH BERETANIA ST.  
HONOLULU, HI 96813-0000

**SHIP TO:**

CITY & COUNTY OF HONOLULU  
BOARD OF WATER SUPPLY  
ATTN: DUENNA GRUETTER  
PH# 748.5588  
DGRUETTER@HBWS.ORG,

PRODUCT NUMBER	DESCRIPTION	QUANTITY	UOM	SELL	EXTENDED SELL
Line: 1 600-04965	EN2-902 X 10 FT ENDLESS POLYESTER	10	EA	109.690	1096.90
Line: 2 600-05015	EN2-902 X 20 FT ENDLESS POLYESTER	10	EA	197.220	1972.20
Line: 3 600-04315	EN1-901 X 6 FT ENDLESS POLYESTER	100	EA	28.910	2891.00
				<b>LINE TOTAL</b>	5,960.10
				<b>TAX</b>	280.84
				<b>TOTAL</b>	6,240.94

## Thank you for buying local!

QUOTATION

#18-35