



City of Ketchum

September 8, 2020

Mayor Bradshaw and City Councilors
City of Ketchum
Ketchum, Idaho

Mayor Bradshaw and City Councilors:

Recommendation to Approve Purchase Order 20511 With Columbia Electric Supply for Variable Frequency Drives and accessories

Recommendation and Summary

Staff is recommending the council approve Purchase Order 20511 and adopt the following motion:

"I move to approve Purchase Order 20511 with Columbia Electric Supply for the purchase of Variable Frequency Drives with necessary accessories to be used at the influent pumping station of the wastewater treatment plant in the amount of \$14,055.30 plus shipping and authorize the mayor to sign the purchase order.

The reasons for the recommendation are as follows:

- Existing influent pump Variable Frequency Drives (VFDs) are over 20 years old and are becoming unreliable and require frequent maintenance.
- Temporary wiring of VFDs needs to be made permanent.
- VFD upgrade will improve energy efficiency of the wastewater treatment plant.

Introduction and History

The existing influent pump VFDs were installed in 1997. They have reached the end of their life expectancy. It has been necessary in the last couple of years to replace different components of the VFDs that have failed. This is occurring more frequently and causing concern with the reliability of the pumping system for wastewater entering the treatment plant.

Influent pump VFDs were intended to be moved from their current location to the new headworks building when it was built in 2018. Instead of incurring the cost of moving old VFDs, which we expected to need replacing in the near future, we decided to temporarily wire the existing VFDs in their current location and pay only one installation cost when the old VFDs were replaced.

Analysis

The existing VFDs are becoming more and more unreliable and costly to repair. They have reached the end of their lifecycle and are a liability which could jeopardize the health and safety of the community if they fail.

Sustainability

The recommended action will further the goals of the 2020 Ketchum Sustainability Action Plan in the following ways:

- Variable frequency drives adjust power consumption as the load requirement changes allowing pumps to use less energy when flows decrease.
- Technological advances in VFDs have improved their energy efficiency capabilities.

Financial Impact

This is a budgeted expense for FY 19/20 with funds coming from the Capital Outlay: Machinery and Equipment line item of Wastewater CIP Expenditures. This expense will be shared equally with the Sun Valley Water and Sewer District.

Attachments:

Purchase Order 20511
Columbia Electric Supply Quote # 1036453



City of Ketchum
City Hall

Purchase Order

Number: 20511

Date: 9/8/2020

Vendor: Columbia Electric Supply
552 Washington Street
Twin Falls, ID 83301

Quote Ref: 1036453

Quantity	Item # / SKU	Description	Item Cost	Total Cost
2	20G11ND040AA0NNNNN	Allen Bradley AC Drive	5,254.80	10,509.60
2	HGP0025AW0S0000	TCI 25HP Harmonic Filter	1,772.85	3,545.70
1		Freight		
			Total	14,055.30

The City of Ketchum is a tax-exempt political subdivision of the State of Idaho.

Please confirm this City of Ketchum Purchase Order with expected delivery to Mick Mummert, Wastewater Dept. Supervisor, at mmummert@ketchumidaho.org or (208) 726-7825.

Please Ship Above Listed Items to:

City of Ketchum WWTP
Attn: Mick Mummert
110 River Ranch Rd
Ketchum, ID 83340

Billing Address:

City of Ketchum
P.O. Box 2315
Ketchum, ID 83340

Order Submitted By:

Neil Bradshaw, Mayor

COLUMBIA ELECTRIC SUPPLY
 552 WASHINGTON STREET
 TWIN FALLS ID 83301
 TEL: 208 733-6861 FAX: 208 734-1701

CONTACT: MIKE CLOYD

QUOTE FOR: CITY OF KETCHUM
 ACCT #: MK-58340 CITY OF KETCHUM

WASTE WATER
 PO BOX 2315
 KETCHUM, ID 83340
 TEL: (208) 720-4945

QUOTATION		PAGE 001 OF 001	
QUOTE # 1036453	DATE 08/21/20	REV # 000	REV DATE 08/21/20
QUOTE EXPIRES 09/20/2020		PREPARED BY MC	
SLS 5192		INSL 8000	
FOB SHIPPING POINT		FREIGHT PREPAY & CHARGE	

CUS PO #: MICK
JOB NAME:

LN	QTY	MFR	CATALOG #	DESCRIPTION	PRICE	UOM	EXT AMT
01	2	AB	20G11ND040AA0NNNNN	AC DRIVE	5,254.80	E	10,509.60
02	*		FACTORY STOCK				
03	2	TCI	HGP0025AW0S0000	25 HP HARMONIC FILTER	1,772.85	E	3,545.70
04	*		ABOUT 1 - 2 WEEKS OUT- PLUS FREIGHT.				

TOTAL: 14,055.30

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