

Agenda Item No. C-1

DATE SUBMITTED 7/25/24  
 SUBMITTED BY Public Services  
 DATE ACTION REQUIRED 8/7/24

COUNCIL ACTION  (X)  
 PUBLIC HEARING REQUIRED  ( )  
 RESOLUTION  ( )  
 ORDINANCE 1<sup>ST</sup> READING  ( )  
 ORDINANCE 2<sup>ND</sup> READING  ( )  
 CITY CLERK'S INITIALS  ( )

**IMPERIAL CITY COUNCIL  
 AGENDA ITEM**

SUBJECT:	DISCUSSION/ACTION: 1. Approve purchase/replacement of raw water flow meter at water plant		
DEPARTMENT INVOLVED: Public Services			
BACKGROUND/SUMMARY: A flow meter is an instrument used to measure the flow rate of liquids, gases, or vapors through a pipe or conduit. The city utilizes a 22-inch diameter magnetic flow meter to measure influent raw water flows at the water plant.  The current 22-inch diameter flow meter is in need of replacement. City staff is using a backup insertion meter that is not as accurate as the mag meter. The purchase and replacement of the magnetic flow meter will allow the water treatment plant staff to avoid inaccurate flow readings. Should the backup insertion meter fail, the City will not be able to determine how much raw water is being sent to the plant for processing.  The replacement meter being requested will be purchased and installed through Control Systems Engineering. City has previously utilized this agency thus they have the experience and knowledge of our system.  Total cost is \$22,856.43. Cost includes all equipment, labor and materials to complete replacement.			
FISCAL IMPACT: NOT TO EXCEED \$22,856.43 (52-510-5442)		FINANCE INITIALS	<u>VMS</u>
STAFF RECOMMENDATION: approve request		DEPT. INITIALS	<u>DD</u>
MANAGER'S RECOMMENDATION: <u>approve</u>		CITY MANAGER'S INITIALS	<u>JHM</u>
MOTION:			
SECONDED:	APPROVED <input type="checkbox"/> ( )	REJECTED <input type="checkbox"/> ( )	
AYES:	DISAPPROVED <input type="checkbox"/> ( )	DEFERRED <input type="checkbox"/> ( )	
NAYES:	REFERRED TO:		
ABSENT:			

Control Systems Engineering, Inc.  
PO Box 25180  
Yuma, AZ 85367

# WRITTEN ESTIMATE

DATE: 7/10/2024

EST NUMBER: FM-071024

**CUSTOMER NAME / ADDRESS**

City of Imperial  
420 South Imperial Ave  
Imperial, CA 92251

**PROJECT ADDRESS:**

City of Imperial  
Raw Water Flowmeter

ITEM	DESCRIPTION	QTY	VALUE	EXTENDED
89002	Raw Water Flowmeter Replacement - Refer to Patten Systems Quote #Q2407-007 (with tax, delivery and contractor markup).	1	19,776.43	19,776.43
89002	On-site labor and miscellaneous materials.	1	3,080.00	3,080.00

Phone #

Fax # (951)551-6347

**ESTIMATED COSTS:**

**\$22,856.43**

# PATTEN SYSTEMS, INC.

15598 Producer Lane  
Huntington Beach, CA 92649  
Tel: (714)-799-5656

July 3, 2024

Control Systems Engineering  
Attn: Eric Blom  
2299 Winterhaven Drive Suite 508  
Winterhaven, CA 92283

Ph: 951-551-6347  
[eric@controlsystemseng.com](mailto:eric@controlsystemseng.com)

## Quote #Q2407-007

As a Representative for Sparling Instruments, we are pleased to offer our quotation for the following:

### Reference Information

**Flow Range: 0-7,000 GPM**

**Flow Media: Raw Water**

**Cable Length on meter record is 50 ft. (7.25/ft. over 50 ft.). Please confirm cable length needed before placing your order**

<b>Item 1</b>	<b>Raf: Replacement for S/N M202233716</b>
<b>Qty 1</b>	<b>Sparling Magnetic Flow Meter, Tigermag Series</b>
	<b>FM656 = Flanged Style Meter</b>
	<b>20 = 20" Size</b>
	<b>5 = Polyurethane Liner</b>
	<b>1 = 316SS Electrodes</b>
	<b>A = Flanged 150# ANSI B16.5</b>
	<b>3= Remote Mount NEMA 4X/7 Enclosure with accidental submergence proof sensor and 50 ft. of cable (7.25/ft. over 50 ft.)</b>
	<b>1= 24 VDC Power</b>
	<b>HART = HART Protocol Included</b>
	<b>AC615-20-1 = 20" 304SS Grounding Rings</b>
	<b>Part No. FM656-205-1A3-1-HART/AC615-20-1 with 50 ft. of cable</b>
	<b>Unit Price \$14,975.00</b>
	<b>Total Price: \$14,975.00</b>

Prices listed do not include any applicable taxes, set-up, training or freight charges.

### PLEASE ISSUE ORDER TO:

**Patten Systems, Inc.**  
**15598 Producer Lane**  
**Huntington Beach, CA 92649**

Materials purchased will be shipped and invoiced directly by Patten Systems, Inc.

Shipment can be made in approximately 14-16 weeks from receipt of order. Terms of payment are Net 30 days from invoice date, F.O.B. El Monte, CA. Prices quoted are firm for 30 days from this date.