



**THIS IS NOT
AN ORDER**

REQUEST FOR BIDS/PROPOSALS COVERSHEET
THE UNIVERSITY OF SOUTHERN MISSISSIPPI

Procurement and Contract Services
703 E. Beach Dr. Ocean Springs, MS 39564

Date: _____

Name: _____

Bid No. 27_21

Company: _____

Address: _____

City/State/Zip: _____

THE UNIVERSITY OF SOUTHERN MISSISSIPPI is considering the purchase of the following item(s). We ask that you submit your bid and retain one copy for your files. Right is reserved to accept or reject any part of your bid. Your quotation will be given consideration if received on or before:

October 23, 2026 2:00 p.m. CDT

TERMS - Bidder should state terms of sale. **Our terms are 2% ten days, net 45 days.**

These terms will apply per Mississippi law.

AWARDING CONTRACT - Cash terms will not be used as a basis for awarding contracts; however, the University will accept cash discounts when earned.

Buyer: Millissa Weaver

NOTE: If you cannot quote on the exact material shown, please indicate any exception giving brand name and complete specifications of any alternate. If additional space is required, use a separate sheet or letter of transmittal.

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL NET PRICE
		Fluid Handling Components Bid# 27_21 as per attached specifications. RFX: 3160008310		
		Incomplete quotes may be rejected. Please quote all items/quantities as per specifications.		
		USM payment terms are 2% ten days, net 45 days. These terms will apply per Mississippi Law.		
		PROPOSAL MUST BE RETURNED TO THE UNIVERSITY IN ACCORDANCE WITH THE SPECIFICATIONS. RFX NUMBER AND DATE OF BID OPENING MUST BE SHOWN ON THE OUTSIDE OF THE ENVELOPE IF USING THAT METHOD.		

We quote you as above-F.O.B. The University of Southern Mississippi. Shipment can be made in _____ days from receipt of order. DATE _____ TERMS _____

Return quotation to Procurement Services at above address.

Sun-Herald

NOTICE TO BIDDERS

Sealed bids will be received in the Shipping and Receiving Office (Room 1-148) of the Oceanography Building on Gulf Coast Research Laboratory's Halstead Campus at 703 E. Beach Drive, Ocean Springs, Mississippi, 39564, until **October 23, 2026 at 2:00 p.m.** for the purchase of the following:

Bid# 27_21 Fluid Handling Components. RFX: 3160008310

Detailed specifications and electronic bid submission instructions may be secured from the above office upon request or our website <https://www.usm.edu/procurement-contract-services/current-bids-and-sole-source-notices.php>

Right is hereby reserved to reject any or all bids. Incomplete bids will be considered nonresponsive.

Millissa Weaver
Procurement Coordinator
The University of Southern Mississippi
Gulf Coast Research Laboratory
(228) 818-8001

Publish 2 times and charge to The University of Southern Mississippi:

10/4/2026
10/11/2026

Bid # 27_21
RFX: 3160008310
University of Southern Mississippi
Fluid Handling Components

TECHNICAL SPECIFICATIONS

Peristaltic Pumps, Pump Heads, Tubing, and Associated Accessories

University of Southern Mississippi - Aquaculture Facility Equipment

1. General Requirements

The University of Southern Mississippi is soliciting sealed bids for the purchase and delivery of peristaltic pump drives, pump heads, mounting hardware, tubing, fittings, and related fluid-handling components for use in aquaculture and research systems.

All equipment and materials shall be new, unused, of current production, and supplied in the manufacturer's standard commercial packaging. Refurbished, demonstration, used, or prototype equipment is not acceptable.

The manufacturer and model numbers identified herein are the preferred products and establish the minimum standard of design, function, quality, compatibility, and performance required. Equivalent products may be offered unless otherwise restricted by the solicitation.

Where an equivalent product is offered, the bidder shall provide sufficient manufacturer literature, technical data, dimensional information, compatibility documentation, and model-specific specifications to demonstrate that the proposed product meets or exceeds every applicable requirement. The University reserves sole discretion to determine equivalency and acceptability.

All components offered as equivalents must be mutually compatible with the associated drives, pump heads, tubing sizes, fittings, controls, and operating conditions identified in these specifications. Any adapters, mounting hardware, cables, or accessories required to provide a complete and functional equivalent configuration shall be included in the bid price.

2. Intended Application

The equipment will support continuous and intermittent liquid transfer, dosing, circulation, and research operations within recirculating aquaculture and related laboratory/process systems. Equipment must be suitable for the stated fluid-handling duty and for repeated operation in a humid aquaculture environment. Washdown-rated equipment shall meet the IP rating specified for the applicable line item.

3. Bid Item Summary

Item	Qty.	Description	Preferred Model
1	4 each	I/P Digital Process Drive	Masterflex 77420-30
2	8 each	I/P Easy-Load Pump Head	Masterflex 77602-10
3	4 each	Dual Pump-Head Mounting Hardware	Masterflex 77601-96
4	2 each	B/T Modular Digital Peristaltic Pump Drive	Masterflex 77111-77
5	1 spool (25 ft)	B/T PerfectPosition Pump Tubing - Tygon S3 E-LFL	Masterflex 06449-91
6	14 spools (100 ft each)	I/P Precision Pump Tubing - Platinum-Cured Silicone	Masterflex 96403-82
7	40 packages (25 ft each)	L/S Precision Pump Tubing - Peroxide-Cured Silicone	Masterflex 96400-16
8	4 each	L/S MasterSense Process Drive	Masterflex 07576-10
9	4 each	L/S Multichannel Pump Head - 8 Channel	Masterflex 07535-08
10	16 packs (8 tubing segments per pack)	L/S 2-Stop Precision Pump Tubing - PharMed BPT	Masterflex 96114-16
11	25 packs (25 fittings per pack)	Straight Polypropylene Hose-Barb Union - 1/8 in.	Masterflex 06365-22

4. Detailed Technical Specifications

4.1 I/P Digital Process Drive

Required Quantity	4 each
Preferred Manufacturer	Masterflex
Preferred Model	77420-30
Reference Catalog No.	MFLX77420-30

Minimum requirements:

- Digital variable-speed peristaltic pump drive for Masterflex I/P tubing and compatible I/P pump heads.
- Maximum flow rate: 26 L/min, dependent on tubing size, pump head, drive speed, and number of heads installed.
- Speed range: 0.1 to 650 rpm with reversible motor and digital dispensing capability.
- Accepts up to two I/P pump heads; compatible with standard and Easy-Load configurations.
- Stainless-steel housing; IP66 washdown-rated.
- Open-head sensor required.
- Remote/network I/O to include EtherNet/IP plus analog/contact-closure control capability.
- Electrical: 90-260 VAC, 50/60 Hz, approximately 4.5 A; U.S. plug configuration.
- Minimum 2-year manufacturer warranty.

Reference product information: <https://www.vwr.com/us/en/product/NA5138871/masterflex-ip-digital-process-drives-avantor>

4.2 I/P Easy-Load Pump Head

Required Quantity	8 each
Preferred Manufacturer	Masterflex
Preferred Model	77602-10
Reference Catalog No.	MFLX77602-10

Minimum requirements:

- Easy-Load pump head for Masterflex I/P precision tubing.
- White PPS housing with stainless-steel rotor; three-roller design.
- Maximum flow rate: 13 L/min.
- Automatic tubing retention and adjustable occlusion.
- Accepts I/P tubing sizes 26, 73, and 82.
- Operating speed range approximately 0.1 to 650 rpm.
- Pump heads must be stackable for multichannel operation.
- Single-channel mounting hardware included.
- Minimum 2-year manufacturer warranty.

Reference product information: <https://www.vwr.com/us/en/product/NA5138914/masterflex-i-p-easy-load-pump-heads-for-precision-tubing-avantor>

4.3 Dual Pump-Head Mounting Hardware

Required Quantity	4 each
Preferred Manufacturer	Masterflex
Preferred Model	77601-96
Reference Catalog No.	MFLX77601-96

Minimum requirements:

- Mounting hardware set for operating two compatible Masterflex I/P Easy-Load pump heads on a single drive.
- Stainless-steel construction.
- Compatible with Masterflex I/P Easy-Load pump heads, including model 77602-10.
- Hardware shall be supplied complete for the intended dual-head mounting configuration.

Reference product information: <https://www.vwr.com/us/en/product/NA5138903/masterflex-ip-easy-load-pump-heads-for-precision-tubing-avantor>

4.4 B/T Modular Digital Peristaltic Pump Drive

Required Quantity	2 each
Preferred Manufacturer	Masterflex
Preferred Model	77111-77

Reference Catalog No.	MFLX77111-77
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Minimum requirements:

- Modular digital variable-speed B/T peristaltic pump system for high-volume transfer and dispensing.
- Compatible with B/T PerfectPosition tubing sizes 87 and 91.
- Flow capability up to approximately 42 L/min with B/T 91 tubing.
- Speed range approximately 12 to 321 rpm; reversible motor.
- Digital operation supporting continuous pumping and dispensing by volume or time.
- Separate motor and controller architecture; motor/controller may be separated for convenient installation.
- Controller and drive rated approximately IP56 for washdown environments.
- Electrical: 190-260 VAC, 50/60 Hz, approximately 5.7 A for model 77111-77.
- Rapid-load style pump head or equivalent compatible B/T head required as part of the specified model configuration.

Reference product information: <https://www.vwr.com/us/en/product/NA5138781/masterflex-b-t-modular-digital-drives-avantor>

4.5 B/T PerfectPosition Pump Tubing - Tygon S3 E-LFL

Required Quantity	1 spool (25 ft)
Preferred Manufacturer	Masterflex
Preferred Model	06449-91
Reference Catalog No.	MFLX06449-91

Minimum requirements:

- B/T 91 PerfectPosition peristaltic pump tubing for use with the B/T pump system specified above.
- Tubing material: Tygon Lab E-LFL / Tygon S3 E-LFL.
- Nominal inside diameter: 0.748 in. (19.0 mm).
- Hose barb size: 0.75 in.
- Maximum flow rate approximately 42 L/min when used in compatible B/T equipment.
- Length: 25 ft per spool/package.
- Maximum pressure approximately 30 psi.

Reference product information: <https://www.vwr.com/us/en/product/NA5133777/masterflex-bt-perfectposition-pump-tubing-tygon-s3-e-lfl-avantor>

4.6 I/P Precision Pump Tubing - Platinum-Cured Silicone

Required Quantity	14 spools (100 ft each)
Preferred Manufacturer	Masterflex
Preferred Model	96403-82
Reference Catalog No.	MFLX96403-82

Minimum requirements:

- Platinum-cured silicone precision pump tubing for Masterflex I/P systems.
- Masterflex tubing size: I/P 82.
- Nominal inside diameter: 0.500 in. (12.70 mm).

- Hose barb size: 0.5 in.
- Maximum flow rate approximately 13 L/min in compatible I/P equipment.
- Length: 100 ft per spool/package.
- Maximum pressure approximately 20 psi.
- Tubing shall be suitable for peristaltic pumping and sterilizable by autoclave, ethylene oxide, or gamma irradiation.

Reference product information: <https://www.vwr.com/us/en/product/NA5139531/masterflex-ip-spoiled-pump-tubing-platinum-cured-silicone-avantor>

4.7 L/S Precision Pump Tubing - Peroxide-Cured Silicone

Required Quantity	40 packages (25 ft each)
Preferred Manufacturer	Masterflex
Preferred Model	96400-16
Reference Catalog No.	MFLX96400-16

Minimum requirements:

- Peroxide-cured silicone precision pump tubing for Masterflex L/S systems.
- Masterflex tubing size: L/S 16.
- Nominal inside diameter: 0.122 in. (3.10 mm).
- Nominal hose barb size: 0.125 in.
- Maximum flow rate approximately 480 mL/min in compatible L/S equipment.
- Length: 25 ft per package.
- Maximum pressure approximately 40 psi.
- Suitable for peristaltic pump service and autoclave/ethylene-oxide sterilization.

Reference product information: <https://www.vwr.com/us/en/product/NA5144573/masterflex-ls-precision-pump-tubing-peroxide-cured-silicone-avantor>

4.8 L/S MasterSense Process Drive

Required Quantity	4 each
Preferred Manufacturer	Masterflex
Preferred Model	07576-10
Reference Catalog No.	MFLX07576-10

Minimum requirements:

- Digital variable-speed Masterflex L/S process drive with advanced connectivity.
- Speed range: 0.1 to 600 rpm; reversible motor.
- Maximum flow rate approximately 3.4 L/min, dependent on installed pump head and tubing.
- 5-inch capacitive color touch-screen interface or equivalent.
- Stainless-steel housing; IP66 washdown-rated.
- Open-head sensor capability required.
- Remote I/O/connectivity to include EtherNet/IP and analog/contact-closure interfaces; cloud/network connectivity comparable to MasterflexLive functionality.
- Electrical input: 90-260 VAC, 50/60 Hz; U.S. plug configuration.

- Compatible with Masterflex L/S multichannel pump heads, including the 8-channel head specified separately.
- Minimum 2-year manufacturer warranty.

Reference product information: <https://www.vwr.com/us/en/product/NA5168314/masterflex-ls-mastersense-process-drives>

4.9 L/S Multichannel Pump Head - 8 Channel

Required Quantity	4 each
Preferred Manufacturer	Masterflex
Preferred Model	07535-08
Reference Catalog No.	MFLX07535-08

Minimum requirements:

- Eight-channel multichannel pump head for Masterflex L/S precision tubing.
- Six-roller design for low-pulsation synchronous flow.
- Housing: anodized aluminum; rotor/rollers: stainless steel.
- Maximum combined flow approximately 2240 mL/min; maximum approximately 280 mL/min per channel.
- Accepts two-stop L/S tubing sizes 13, 14, and 16.
- Fixed occlusion with stopped-tubing retention.
- Operating speed range approximately 0.02 to 600 rpm.
- Stackable design for multichannel operation and compatible with L/S drives of sufficient horsepower, including the drive specified above.

Reference product information: <https://www.vwr.com/us/en/product/39208441/masterflex-ls-multichannel-pump-heads-avantor>

4.10 L/S 2-Stop Precision Pump Tubing - PharMed BPT

Required Quantity	16 packs (8 tubing segments per pack)
Preferred Manufacturer	Masterflex
Preferred Model	96114-16
Reference Catalog No.	MFLX96114-16

Minimum requirements:

- Two-stop precision pump tubing for Masterflex L/S multichannel pump heads.
- Tubing material: PharMed BPT.
- Masterflex tubing size: L/S 16.
- Nominal inside diameter: 0.122 in. (3.10 mm).
- Nominal hose barb size: 0.125 in.
- Maximum flow rate approximately 460 mL/min in compatible equipment.
- Each package shall contain 8 tubing segments; nominal length approximately 1.25 ft (0.38 m) per segment.
- Maximum pressure approximately 40 psi.

Reference product information: <https://www.vwr.com/pr/en/product/39208311/masterflex-ls-2-stop-pump-tubing-pharmed-bpt-avantor>

4.11 Straight Polypropylene Hose-Barb Union - 1/8 in.

Required Quantity	25 packs (25 fittings per pack)
Preferred Manufacturer	Masterflex
Preferred Model	06365-22
Reference Catalog No.	MFLX06365-22

Minimum requirements:

- Straight hose-barb union fitting for connecting flexible tubing.
- Polypropylene construction.
- Barb/tubing inside diameter, port 1: 1/8 in.
- Barb/tubing inside diameter, port 2: 1/8 in.
- Straight flow pattern; barbed-union connection type.
- Each package shall contain 25 fittings.
- Suitable for general-purpose fluid handling and compatible peristaltic-pump tubing connections.

Reference product information: <https://www.vwr.com/us/en/product/39208520/masterflex-union-fittings-hose-barb-straight-polypropylene-avantor>

5. Equivalency and Submittal Documentation

Bidders proposing the preferred manufacturer and exact model number may identify the model offered and provide standard product literature sufficient to confirm the bid configuration.

Bidders proposing an alternate or equivalent product shall submit a point-by-point comparison to the applicable requirements in Section 4. The comparison shall clearly identify all deviations, exceptions, substitutions, or accessory requirements.

Failure to provide sufficient documentation for an alternate product may result in the University being unable to determine equivalency. Statements that a product is simply “equal” or “comparable” without supporting model-specific documentation are not sufficient.

The University may consider compatibility with the other listed components and the intended system configuration when determining whether an alternate product is acceptable.

6. Delivery, Packaging, and Acceptance

All items shall be delivered complete, undamaged, and in manufacturer packaging with model and catalog identification clearly visible. Tubing and fittings shall be supplied in the package lengths and quantities specified.

Bid pricing shall include all standard accessories and hardware necessary for the specified configuration unless an item is expressly listed as a separate bid line.

The University reserves the right to inspect delivered items for model identity, quantity, condition, and compliance with the technical specifications before final acceptance. Nonconforming items shall be replaced by the vendor at no additional cost to the University.

The bidder shall identify any known lead time, backorder status, discontinued model, superseding model, or other condition that could materially affect delivery of the specified items.