SEALED BID

Do Not Return Via Email or Fax

Mailing Address:
P. O. Box 1948
Mobile, Alabama 36633
(251) 208-7434

CITY OF MOBILE

Purchasing Department and Package Delivery: Bid Delivery Address:

Government Plaza
4th Floor, Room S-408
205 Government St.
Mobile, Alabama 36644
Postal Service Does Not Deliver to This Street Address

BID SHEET

This is Not an Order

READ TERMS AND CONDITIONS ON REVERSE SIDE OF THIS PAGE BEFORE BIDDING

Typed by: lw Buyer: 002

Please quote the lowest price at which you will furnish the articles listed below

DATE	BID NO.	DEPARTMENT	Commodities to be delivered F.O.B. Mobile to:
3/5/2026	6033	ENGINEERING	TO BE SPECIFIED

This bid must be received and stamped by the Purchasing office not later than: 12:01 p.m., Wednesday, March 25, 2026

QUANTITY	ARTICLES — Bid on this form ONLY. Make no changes on this form. Attach any additional information required to this form.	UNIT	UNIT PRICE Dollars	UNIT PRICE Cents	EXTENSION Dollars	EXTENSION Cents
	FENDER SYSTEM COMPONENTS Vendor to provide to The City of Mobile One (1) Lot of 24 Ocean Going Ship Fender Components for City installation on the City of Mobile owned dock as per the following and attached specifications. Bidders must respond to this bid opportunity in the sealed envelope or package to be opened at 12:01 p.m., Wednesday, March 25, 2026, at the US Mail or Package Delivery Address listed at the top of this form. Bidder to provide one signed original paper copy and one electronic copy by CD or flash drive of their bid response in the sealed package. Include with the Bid submission: 1. Signed cover copy of this bid form at the bottom of this page. Note: DO NOT include pricing on this page – refer to separate bid pricing sheet at the end of the specifications. 2. Signed bid pricing sheet found at the end of the specifications. 3. Additional sheets regarding alternative proposed payment terms if necessary. 4. Specification and performance documentation listed as required by paragraphs 7 and 8 in the performance specifications. 5. Warranty and claim information required by paragraph 10 of the performance specifications. 6. Alabama Certificate of Authority to Operate or Evidence of Alabama Incorporation 7. Evidence of Enrollment in E-Verify Emailed or faxed responses will not be accepted.					
			TOTAL			

RETURN ONE SIGNED COPY OF THIS BID IN ENCLOSED ENVELOPE

State delivery time within_____ days of receipt of P.O.

Phone Number _____

Email Address _____

Firm Name _____

Signature _____

Type or Print Name _____

1. All quotations must be signed with the firm name and by an authorized officer or employee.

2. Verify your bid before submission as it cannot be changed or corrected after being opened. In case of error in extension of prices, the unit price will govern.

3. If you do not bid, return this sheet and state reason. Otherwise, your name may be removed from our mailing list.

4. The right is reserved to reject any, or all quotations, or any portions thereof, and to waive technicalities if deemed to be in the interest of the City of Mobile.

5. This bid shall not be reassignable except by written approval of the Purchasing Agent of the City of Mobile.

6. State brand and model number of each item. All items bid must be new and latest model unless otherwise specified.

7. If bid results are desired, enclose a self-addressed and stamped envelope with your bid. (All or None bids only)

8. Do not include Federal Excise Tax as an exemption certificate will be issued in lieu of same. The City is exempt from the State of Alabama and City sales taxes.

9. PRICES ARE TO BE FIRM AND F.O.B. DESTINATION UNLESS OTHERWISE REQUESTED.

10. BID WILL BE AWARDED ON ALL OR NONE BASIS UNLESS OTHERWISE STATED.

11. Bids received after specified time will be returned un-opened.

12. Failure to observe stated instructions and conditions will constitute grounds for rejection of your bid.

13. Furnish literature, specifications, drawings, photographs, etc., as applicable with the items bid.

14. Vendor may be required to obtain City of Mobile Business License as applicable to City of Mobile Municipal Code Section 34-50. For Business License inquiry, contact the Revenue Department at (251) 208-7462 or cityofmobile.org/business-license-overview/

15. **IF** a bid bond is required in the published specifications, see below:
    Each bid shall be accompanied by a **Cashier's Check, Certified Check, Bank Draft** or **Bid Bond** for the sum of five (5) Percent of the amount bid, made payable to the City of Mobile and certified by a reputable banking institution. All checks shall be returned promptly, except the check of the successful bidder, which shall be returned after fulfilling the bid.

16. Contracts in excess of $50,000 require that the successful bidder make every possible effort to have at least fifteen (15) percent of the total value of the contract performed by socially and economically disadvantaged individuals.

17. All bids/bid envelopes must have the bid number noted on the front. Bids that arrive unmarked and are opened in error shall be returned to vendor as an unacceptable bid.

18. If successful vendor's principal place of business is out-of-state, vendor may be required to have a Certificate of Authority to do business in the State of Alabama from the Alabama Secretary of State prior to issuance of a Purchase Order. Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx . Please note that the time between application for and issuance of a Certificate of Authority may be several weeks.

19. Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State to submit a bid, but may need to obtain the Business License and Certificate of Authority if applicable, prior to issuance of a Purchase Order.

20. Bids and addendums are posted at www.cityofmobile.org/services/business/bids/. It is the responsibility of the vendor to check the City's bid page for updates and addendums.

21. Vendors must be able to provide the following upon request. Federal W-9 form, proof of registration in the E-Verify program, and Certificate of Authority to do business in Alabama/Registration with the Alabama Secretary of State within 24 hours of request.

22. City of Mobile applies local vendor preference to all purchases: Code of Aabama, 1975, Sections 41-16-50(a) and 41-16-50(d), except federally funded grants.

23. Equal Employment Opportunity. Except as otherwise provided under 41 CFR part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

24. Davis-Bacon Act, as amended (40 U.S.C. 3141-3148) will apply when required by Federal program regulations.

BID CONTINUATION SHEET

Page_____ of_____

QUANTITY	ARTICLES Bid on this form ONLY. Make no changes on this form. Additional information to be submitted on separate sheet and attached hereto.	UNIT	UNIT PRICE Dollars	UNIT PRICE Cents	EXTENSION Dollars	EXTENSION Cents
	State of Alabama Local Vendor Preference Law 41-16-50 (a) and (d) will apply to this purchase. Questions regarding this bid opportunity must be emailed to the Purchasing Department at purchasing@cityofmobile.gov and must be received by noon on March 17, 2026. CONE OF SILENCE. From the time of advertising, and until the final award by completion of a signed contract or purchase document issued by the City, there is a prohibition on communication by respondents (or anyone on their behalf) with the City staff and elected officials regarding this request for bids, proposals, or qualifications. This does not apply to communications directly with the Procurement Department staff during authorized question periods, or with designated City staff during pre-bid conferences, interviews, requests for clarification, and written contract negotiations. Breaking the established prohibition on communication, if proven, may result in a disqualification of your submittal. THIS BID OPPORTUNITY TO BE AWARDED ALL OR NONE.					
			TOTAL			

RETURN ONE SIGNED COPY OF THIS QUOTATION IN ENCLOSED ENVELOPE

READ ABOVE INSTRUCTIONS BEFORE QUOTING

Firm Name _____

By _____

Mobile River Fender System Replacement Project
Fender Specification

1. General

This performance-based specification covers the design, supply, testing, and delivery of complete cone fender systems for a closed-structure berth at the Mobile Alabama Cruise Terminal on the U.S. Gulf Coast in Mobile, AL. The fender system unit shall comprise a single cone-type elastomeric fender per unit, a steel frontal frame with UHMW-PE low-friction face pads, chain systems, anchorage, and all accessories required for a complete and operable installation. Products from ShibataFenderTeam (model SPC900/G2.1) or Trelleborg Marine & Infrastructure (model SCN950/F1.4), or approved equals meeting this specification in full, are acceptable. This specification requires the delivery of twenty-four (24) fender units NO LATER THAN August 21, 2026. Delivery shall be made to the Alabama Port of Mobile in Mobile, AL. Specific delivery location and arrangements will be coordinated with the successful bidder. Bidders should presume they will be required to offload systems at destination.

1.1 Vessel and Design Basis

a. Design vessel (basis of energy): Cruise liner (post-Panamax class) with displacement ~50,253 t, Lpp 247 m, beam 35.4 m, draft 8.2 m.

b. Berthing approach: side berthing to a closed structure; bow impact 25%; angle of approach 6°.

c. Under-keel clearance: 4 m. Velocity for energy derivation: 0.10 m/s (100 mm/s).

d. Environmental condition: “Good, sheltered” berthing.

Design inputs and method reference: PIANC WG33 (2002) methodology for berthing energy and fender performance/test procedures. Normal energy EN = 178.29 kNm; adopted factor of safety = 2.0; abnormal design energy EA = 356.58 kNm.

2. System Performance Requirements

Performance values below are for the complete fender unit at constant slow compression (CV), corrected for manufacturing tolerance and project factors (velocity, temperature, and angle). The supplier shall select and configure either SPC900/G2.1 or SCN950/F1.4 (or approved equal) to satisfy all requirements concurrently.

1. Minimum corrected energy absorption (E_corr) ≥ 356.6 kNm at 6° contact angle and 100 mm/s test basis (apply: −10% on energy for manufacturing tolerance; include VF/TF/AF as per PIANC).

2. Maximum corrected reaction force (R_corr) ≤ 629 kN at the same conditions (apply: +10% on reaction for manufacturing tolerance; include VF/TF/AF).
3. Average hull pressure limited to ≤ 200 kN/m^2 based on corrected reaction distributed over effective flat panel face area.

4. Single fender unit per system (one cone body per panel).

2.1 Performance Factors & Tolerances

a. Manufacturing tolerance: −10% energy, +10% reaction (applied to catalogue CV values).

b. Velocity factor (VF): compute per vendor catalogue/test data for 100 mm/s reference.

c. Temperature factor (TF): compute for site temperature range; baseline 23±9 °C; design minimum 0 °C.

d. Angle factor (AF): compute for 6° contact.

3. Elastomeric Fender Body

Cone-type rubber fender body with integrally bonded internal steelwork. Rubber compound shall be natural/synthetic blend suitable for marine exposure, ozone and seawater resistant, reinforced with carbon black, and free of defects. Embedded plates and inserts to be fully encapsulated; only stainless steel ferrules exposed at bolting locations.

3.1 Rubber Compound—Minimum Properties

Property	Standard	Requirement
Tensile strength (orig.)	ISO 37	≥ 16.0 MPa Original
Elongation at break (orig.)	ISO 37	≥ 350 %
Hardness (orig.)	ISO 7619-1	≤ 78 Shore A
Compression set (22 h @70°C)	ISO 815-1	≤ 30 %
Tear resistance	ISO 34-1	≥ 70 kN/m
Ozone resistance	ISO 1431-1	No cracks

Seawater resistance (28 d @95°C)	ISO 1817	Hardness ±10 degrees Shore A; Volume +10/−5 %
Abrasion loss (3000 rev)	BS 903 A9/ISO 4649B	≤ 1.5 cc
Bond strength (rubber–steel)	ISO 813	≥ 7 N/mm

3.2 Dimensions & Tolerances

a. All rubber dimensions within ±3% or ±2 mm (whichever greater).

b. Bolt-hole spacing tolerance ±4 mm (non-cumulative).

4. Frontal Frame (Panel) & UHMW-PE Pads

a. Closed box steel panel designed per AISC Steel Construction Manual (15th Ed.) with minimum thickness guidelines per PIANC 2002: ≥12 mm (both faces exposed), ≥9 mm (one face), ≥8 mm (internal).

b. Panel sized to limit average hull pressure to ≤ 200 kN/m^2 including corrected reaction.

c. Provide chamfers ~150×150 mm on top and sides to avoid snagging.

d. All external welds continuous and air-tight. Pressure test panels at 0.5 kg/cm^2 for 30 minutes before coating; repair and retest until no leaks.

4.1 UHMW-PE Face Pads

a. Virgin UHMW-PE with 2.5% UV stabilization; coefficient of friction (steel) ≤ 0.15.

b. Nominal thickness 50 mm; chamfer 15×15 mm on exposed edges; unit piece weight 40–50 kg typical.

c. Wear allowance 10–15 mm above hardware; fastening by stainless studs (SS316L) with oversized washers and nuts.

5. Chain Systems & Hardware

a. Provide tension and weight (vertical shear) chains to support panel weight, restrain panel translation/rotation, and ensure fender remains in compression. Chain factor of safety ≥ 3 against breaking, based on corrected reaction and friction coefficient 0.15.

b. Weight chain initial angle ≤ 30°; adjustable turnbuckles/tensioners provided.

c. Chain brackets and fixtures sized for all loads; clear of fender compression envelope.

d. Anchorages: post-installed adhesive anchors for structure connections (SS316 hardware).

e. Fender-to-panel and UHMW-PE connections: SS316/316L bolts, nuts, washers as applicable.

6. Corrosion Protection

a. Provide additional corrosion allowance of 3.2 mm on exposed steel.

b. Hot-dip galvanize per ISO 1461 for carbon-steel components (chains, as applicable).

c. Paint system for splash-zone exposure per ISO 12944, category C5, durability class M (7–15 years), total NDFT ≈ 284 µm (e.g., sealer 80 µm + two epoxy coats totaling 204 µm), color black unless noted otherwise.

d. Provide isolation (nylon/HDPE) at bimetallic interfaces and a welded stud for connection to active cathodic protection if required.

7. Quality Assurance, Testing & Submittals

a. Manufacturers for elastomeric fender and steel fabrication shall be ISO 9001 certified; environmental management ISO 14001 preferred.

b. Provide PIANC 2002 type-approval certificate for the proposed fender model, and independent third-party (e.g., Lloyds/ABS) witnessed production performance tests.

c. Rubber compound verification: third-party TGA/FTIR per ASTM/ISO to confirm chemistry (polymer ≥45%, carbon black ≥20%, ash ≤5%, density ≤1.2 g/cc).

d. Production performance verification: test ≥10% of units at CV speeds per PIANC Appendix A; pass criteria: EVT ≥ 0.9×ECV×TF and RVT ≤ 1.1×RCV×TF at stabilized temperature.

e. Panel pressure test (air) and NDT: MT on fillet welds and UT on butt welds per AWS/ASME; documentation required.

f. Coating inspection per SSPC PA2 (DFT statistics), adhesion per ISO 4624.

g. **Submittals with bid: GA drawings, catalogue data, paint data sheets, and at least 10 reference installations of similar size/Type >10 years old**.

h. Post-award submittals: final drawings, panel/chain calculations, performance curves with correction factors, WPS/PQR/WPQ, UHMW-PE data and tests, installation & O&M manuals.

8. Model-Specific Acceptance – Demonstration of Compliance

a. Trelleborg SCN950/F1.4: Published CV performance ECV ≈ 356 kNm and RCV ≈ 629 kN. **Supplier shall demonstrate corrected performance meets Section 2 under project factors**.

b. ShibataFenderTeam SPC900/G2.1: **Supplier shall submit catalogue CV curves and correction factors demonstrating E_corr ≥ 356.6 kNm with R_corr ≤ 775 kN under Section 1.1 conditions, including tolerances and factors. If panel sizing differs from catalogue assumptions**, supplier shall adjust panel area to maintain hull pressure ≤ 200 kN/m^2.

c. For other model options offered: **Include with bid sufficient documentation to ensure model offering meets type and performance specifications**.

9. Packing, Delivery & Documentation

a. Provide seaworthy packing; deliver complete QA dossiers including all test certificates, coating reports, and as-built drawings.

b. Provide complete design calculations for the fender system including FEA analysis of the face panel indicating a maximum pressure of 200 kN/m^2. Calculations are to be provided in English Units.

c. Provide three (3) hard copies and one (1) digital copy of installation, inspection, and maintenance manuals before dispatch.

10. Warranty and Post-Delivery Support

a. Provide warranty for material, manufacturing, and performance defects, to include coating failures and premature wear. City expects successful bidder warranty to provide City reasonable assurance that product defects discovered by City during normal conditions of installation, use, and wear that lead to premature failure will be effectively and efficiently remedied by bidder. Failure of bidder to provide reasonable assurance of length or extent of bidder's warranty coverage, in the sole discretion of the City, will be caused for rejection of bid.

b. **Submit with bid: Full warranty information, to include coverages, terms, exclusions, and claims and corrective processes**.

BID PRICING Sheet - Please complete and sign

City to award bid based on lowest overall pricing on line 3, for responsive vendor meeting specifications in submissions, and product substantive compliance with material and performance specifications, to include assurance of delivery timeliness. The City retains discretion to determine whether bidder's submission adequately meets all such requirements. The City retains the right to clarify any bid submissions and to reject any or all bid submissions.

1. **Complete Fender Units** as per specifications. Price must include all custom or Import Taxes and applicable Tariff fees, but NOT to include shipping.

a. Price per EACH complete fender unit $_____

b. Extended Price for ALL 24 fender units $_____

2. **Shipping to Port of Mobile, Alabama**.

Indicate a Not to Exceed Shipping price: $_____

3. Total for 24 fenders plus not to exceed shipping $_____

4. **Payment term options**. City of Mobile Terms Are Net 30 Days upon delivery and acceptance of product. Shipping charges may be paid at time of shipping. The City will consider product pre-payment options in consideration of low bid award. Indicate below as a Percentage Discount Off of Line 1.b. (price excluding shipping) for the following payment options. If option below is bidder's ONLY OFFERED OPTION, indicate below:

a. 100% Pre-payment at time of order: Discount: _____% Only option? _____

b. 50% payment at time of order; 50% payment after delivery and acceptance of order.

Discount: _____% Only option? _____

c. 30% payment at time of order; 30% payment upon proof of shipment; 40% payment after delivery and acceptance of order.

Discount: _____% Only option? _____

d. Custom Discount for a condition not listed above. Please describe the terms separately.

_____

CORPORATE NAME – Name to which Purchase Document will be issued

_____ _____

SIGNATURE: DATE:

_____ _____

PRINTED NAME TITLE

PROCUREMENT DEPARTMENT

Potential bidders are responsible to check this site for any ADDENDUMS that are issued. It is the responsibility of the BIDDER to check for, download, and include with their BID RESPONSE any and all ADDENDUMS that are issued for a specific BID published by the City of Mobile. Failure to download and include ADDENDUMS in your BID RESPONSE may cause your bid to be rejected.

This is a sealed bid. Any responses faxed or emailed will be rejected.

This is a sealed bid. Any response must be submitted in a sealed envelope with the bid number and bid opening date on the outside of the envelope.

Any response that arrives improperly marked or with no bid number and opening date on the outside of the delivery or express package and opened in error will be rejected and not considered.

It is the responsibility of the bidder to ensure that their bid response is delivered to and received in the Purchasing Department before the date and time of the bid opening.

Please read the Terms and Conditions.

All bids are F.O.B. destination unless otherwise stated.

Please sign your bid.

Package/Bid Delivery Address (Request First Delivery):
Purchasing Department
205 Government St., RM S408
Mobile, AL 36644