

REQUISITION & PROPOSAL

ALABAMA STATE PORT AUTHORITY
MCDUFFIE COAL TERMINAL DEPARTMENT

DATE: 3/12/19
ORIGINATING DEPT NO. UPON REQUEST

TO: Prospective Vendors
Please **procure** the following and **DELIVER TO**:

ALABAMA STATE PORT AUTHORITY
MCDUFFIE COAL TERMINAL OFFICE
1901 EZRA TRICE BLVD
MOBILE, AL 36602

NAMES OF ARTICLES, SPECIFICATIONS AND PURPOSE

This Requisition solicits proposals to provide for the supply of materials, labor and supervision necessary to manufacture one gantry crane **reeved clam shell** bucket for the Metalna Crane, at the Alabama Port Authority (ASPA) McDuffie Coal Yard Facility located in Mobile, Alabama, in accordance with the requirements stated herein, attached ASPA drawing ED-1-169, Scope of Work Specifications, and applicable State of Alabama Laws.

The intent of the Contract is to provide for the manufacture and supply, complete in every detail, of a whole, fully operational and functional unit. The proposed work will consist of providing all labor, materials, tools, transportation, supervision, insurance and incidentals required to complete the work to manufacture, completely, the lift bucket. The bucket will be installed on a gantry ship unloading crane which is in continuous operation unloading coal from ships and barges.

All Suppliers submitting bids are to carefully examine the proposed work and inform himself fully in regard to all conditions pertaining to the work to be done and thoroughly review the contract requirements prior to submission of a bid proposal to satisfy their self to all aspects of the work to be performed. Each Bidder shall satisfy themselves as to the character, quality, and quantities of work to be performed, and as to the requirements of the proposed contract. The submission of a proposal shall be prima facie evidence that the bidding Contractor has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the proposed Contract.

Bids can be accepted only from Manufacturers exhibiting a minimum of five (5) years of experience in the design, fabrication, and assembly of **large reeved clam shell** buckets for industrial crane use **with volumetric capacity of 20 tons and larger**.

Important: If you will be making a site visit you must fill out and bring with you the Indemnification Agreement found as the last page of this document.

Company Name: _____

Authorized Signature: _____ Print Name: _____

Bid Opening is 3/12/19 at 10am. in the McDuffie Conference Room

Bids must be labeled: Clamshell Bucket for M-Crane 3/12/19

Clamshell Bucket for M-Crane

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GENERAL CONDITIONS AND SPECIFICATIONS

FOR

MCDUFFIE COAL TERMINAL METALNA GANTRY CRANE COAL HANDLING BUCKET MOBILE, ALABAMA

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SECTION 1 - GENERAL CONDITIONS

1.1 Definitions

ASPA	Refers to the Alabama State Port Authority.
Engineer	Refers to the engineering firm or engineer ASPA authorizes to act on its behalf, the name of whom will be made known to the Manufacturer.
Manufacturer	Refers to the manufacturer and/or builder of all components and equipment related to the Bucket.
Subcontractor	Refers to any company that the manufacturer may engage to furnish services to complete one or more parts of the work to be accomplished under this Agreement. Subcontractors will be subject to acceptance by ASPA.
Vendor	Refers to any company or person supplying equipment that forms a part, parts, or assemblies on the Bucket.
Construction	Refers to the fabrication (manufacturing), field installation, testing, and placing into operation of the Bucket.
Fabrication Site	Refers to the place(s) at which any major component(s) is fabricated, shop assembled and made ready for packing, loading and delivery for transportation to the Site.
Site	Refers to the McDuffie Coal Terminal, where the Bucket will be delivered, installed, tested, adjusted, and placed into service.

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Delivery Date	Refers to the date(s) specified by the ASPA Agreement with the Manufacturer that the new Bucket will be delivered completely assembled to the ASPA Site.
Actual Delivery Date	Refers to the Date that ASPA accepts the performance of the Bucket and marks the start of the warranty period.
Fabrication Schedule	Refers to a bar chart type schedule that clearly details the Manufacturer's plan, milestone dates, and duration (start and end dates) for material procurement, component delivery, fabrication, shop assembly, shipping, and field installation of the Bucket.
<p>1.2 <u>Intent</u></p> <p>1.2.1 It is the intent of these Specifications to provide for the procurement of one (1) coal handling Clam Shell Bucket of modern design, durable, and suitable for safe, efficient and profitable handling of the designated bulk material. It is further intended that the Manufacturer shall furnish all labor, supervision, parts, components, materials, equipment, tools, transportation, and supplies required to complete the work for the crane buckets for the Alabama State Port Authority (ASPA) State Port Authority (ASPA) Mobile, Alabama in accordance with the plans, drawings, specifications, and terms of the Contract.</p> <p>1.2.2 The Manufacturer will be responsible for the design, fabrication, assembly and delivery of the Bucket(s) which meet or exceed the requirements set forth in these Specifications. Any items not specifically mentioned in the Specifications, but which are necessary to make the Bucket(s) complete in all respects will be furnished by the Manufacturer.</p> <p>1.2.3 The description for each item, being briefly stated, implies, although it may not specifically mention, all incidentals and the prices stated in the proposals are intended to cover all such work materials and incidentals as constitute Bidder's obligation as described in these specifications. Any detail which may be incomplete or lacking in the plans and specifications shall not constitute claim for extra compensation.</p>	

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1.2.4 Such detail shall be supplied by the Manufacturer and submitted to the Engineer in advance of its requirement. The true intent of the plans and specifications is to produce a superior and complete product and incomplete detail will not abrogate this intent. Current (latest) editions of all pertinent codes, regulations and standards shall apply.

1.2.5 ASPA is purchasing the expertise of the Manufacturer. The Manufacturer is invited to point out, in his bid and throughout the project, elements of the Specifications that are inconsistent with good Bucket design, fabrication, selection of materials, quality control, operating practice and other contractual considerations. ASPA desires to work with the Manufacturer to gain the benefit of its expertise.

1.2.6 ASPA's intent is to purchase the Bucket(s) with all appurtenances and capital needed for their maintenance and operation; however, the Manufacturer recognizes ASPA's right, at any time or from time to time, to replace any part of the Bucket directly from a supplier or vendor of ASPA's choosing. The Manufacturer agrees that it has not made nor will it make any agreement with any supplier or vendor which would nullify or restrict ASPA's right.

1.2.7 Safety and reliability of the Bucket are paramount and fabrication quality is critical. Durability of operation is of the utmost concern.

1.2.8 The Manufacturer will assume the sole responsibility for any loss or damage to the Buckets and all components thereof, regardless of how such loss or damage occurs, until the Actual Delivery Date.

1.3 Items Requiring ASPA's Review and Approval

The following items shall be subject to ASPA's review and approval (such approval not to be unreasonably withheld):

1.3.1 Subcontractor(s)

1.3.2 Equal or approved equal

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- 1.3.3 Extension of time of delivery schedule or price change
- 1.3.4 Manufacturing Schedule
- 1.3.5 Deviations from the specified concepts, systems or components of the Specifications
- 1.3.6 Painting and protective treatments
- 1.3.7 The use of ASPA's name in any test or advertising
- 1.3.8 Bucket dimensional drawing (Reference Dwg. No. ED-1-169)
- 1.3.9 Bucket weight (design and as-built)
- 1.3.10 Bucket handling capacity (design volume cu. yds)
- 1.3.11 Total weight of bucket plus Coal (based on a product weight of 55#/cu. ft.)
- 1.3.12 Bucket sheave assembly
- 1.3.13 Bucket reeving arrangement

- 1.4 Fabrication Schedule
 - 1.4.1 **Within fourteen (14) calendar days after the Notice of Award**, the Contractor shall submit to the Owner three (3) copies of tentative manufacturing and construction schedule outlining the sequence of events for fabrication of components, approval drawing submittal, issue of certified drawings, and delivery.
 - 1.4.2 The schedule shall clearly indicate the manufacturer's major activities and events that must be accomplished to procure material, manufacture, machine, assemble, paint, shop test and ship the completed Bucket.
 - 1.4.3 The Manufacturer shall revise, update, and resubmit the fabrication schedule upon request by ASPA.

- 1.5 Freight

The manufacturer's bid shall include all freight charges - FOB McDuffie Coal Terminal, Alabama State Docks, Mobile, Alabama.

- 1.6 Notices

The Manufacturer shall notify ASPA and the Engineer of the mode of transport and the shipment date of the Buckets **at least fourteen (14) days prior to shipment** to the Site.

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<p>1.7 Compliance with Laws, Rules, and Regulations</p>
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The Manufacturer will have and hereby assume full and complete responsibility for producing Bucket(s) and their components which will fully comply with all applicable U.S. governmental and OSHA regulatory rules, regulations, as such rules, regulations and requirements restrict or regulate in any manner the possession, operation, and use of the specific Bucket and its required components.

<p>1.8 <u>Warranty</u></p>

<p>1.8.1 The Manufacturer shall warrant that the Buckets and each component thereof will be free from all defects in materials, equipment, and workmanship, for a period of one year from the Actual Delivery Date. The warranty period will be extended by the remaining unused period for any replacement occurring during the warranty period. In the event that any part of the Buckets or their components appears to be defective in manufacture, materials, equipment, fabrication, or workmanship within the period of warranty, ASPA will immediately notify the Manufacturer in writing or by telefax of the alleged defect or failure. The Manufacturer will thereupon promptly correct any defect or failure without cost to ASPA, or will authorize ASPA to make, for the Manufacturer's account, such repairs or replacements as may be necessary to correct the defect or failure. No allowance will be made for any repairs or replacements made by ASPA, or others, unless and until ASPA has given the Manufacturer notice of the alleged defect or failure prior to the commencement of such repairs or replacements. However, if the defect is such as to interfere with ASPA's operation and use of the Bucket, ASPA may, after notification, proceed forthwith to repair the same at the expense of the Manufacturer.</p>
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<p>1.8.2 In the event later inspection demonstrates that such defect or failure was not due to any work performed, or to any materials or equipment furnished, pursuant to this contract, the costs of such repairs, or replacements, whether made by the manufacturer or others, will be for ASPA's account, and ASPA will further reimburse the manufacturer substantiated necessary costs incurred by the manufacturer in making its inspection.</p>
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<p>1.9 <u>Warranty and Liability after Final Payment</u></p>

Final acceptance and payment by ASPA with respect to the Buckets will not release the Manufacturer from any of its liabilities or responsibilities under any of the warranties or representation or any of the terms of this Agreement with respect to the Buckets.

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SECTION 2 - TECHNICAL SPECIFICATIONS (MINIMUM REQUIREMENTS)

2.1 General Description and Performance

- 2.1.1 **The scope of these Specifications shall include, but not necessarily be limited to, the design, fabrication, delivery, and placing into service one (1) coal handling reeved Clam Shell Bucket(s).** The Bucket(s) shall be complete in all respects and delivered ready for service at ASPA's McDuffie Coal Terminal.
- 2.1.2 It is recommended that prior to bid the Bucket Manufacturer familiarize themselves with the crane operating parameters, configuration, and performance at the site. It will be the Bucket Manufacturer's responsibility to ensure that the Bucket(s) supplied will not only provide for safe, durable, and reliable handling of the designated materials, but also will not adversely affect the crane performance or warranty.
- 2.1.3 The manufacturer shall be responsible for ensuring that the Bucket(s) supplied will properly interface structurally and mechanically with the respective existing coal unloading cranes at the site with no modifications required to the crane electronic controls programming to interface with the Buckets.
- 2.1.4 The new Buckets shall provide that the following components shall be interchangeable with the existing and new Buckets:
- 2.1.4.1 Holding line quick disconnect fitting.
 - 2.1.4.2 Closing line quick disconnect fitting.
- 2.1.5 The new **Metalna** Crane Bucket shall be supplied with **1 ¾" diameter 6x37 closing line wire ropes**, reeved in the Bucket sheave assembly and extending up through a guide in the Bucket upper block arrangement. The two (2) wire ropes for the bucket shall be terminated onto a closing line equalizer bar using a wedge type socket. The upper end of the wire ropes shall extend for approximately three feet above the upper block assembly and shall be fitted with a special spelter type socket. This socket must be of the same size (capacity rating), configuration, and manufacturer as currently in use on the existing unloader. This quick disconnect socket will interface with the existing connector link on the unloader closing line drum. The special spelter socket must be European type as manufactured by Nemag Corp., Type 14, dead-end sockets standard LBNO or equivalent.

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2.2	The installation of the wedge and spelter type sockets shall be per the latest edition of the "American Iron and Steel Institute" (AISI) installation procedures. The quick disconnects shall interface with the fittings currently in use on the existing Metalna crane.																								
2.3	<p><u>Reference Specifications</u></p> <p>Applicable standard specifications, recommendations, or requirements of the following listed authorities are referenced herein by abbreviation, or shall be used by the Manufacturer in material specifications and procedures. In case of conflict between the standard referenced specification and the Contract specification, this Contract specification shall govern. All references are to be the latest published specification or the latest approved draft proposal unless specifically stated otherwise in this Contract specification. Any other requirement that is applicable shall be included to the same extent as if listed herein.</p> <p><u>Abbreviation</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">AFBMA</td> <td>Anti-Friction Bearing Manufacturers Association.</td> </tr> <tr> <td>AISC</td> <td>American Institute of Steel Construction.</td> </tr> <tr> <td>AISI</td> <td>Association of Iron and Steel Institute.</td> </tr> <tr> <td>ANSI</td> <td>American National Standards Institute (formerly American Standards Association, ASA)</td> </tr> <tr> <td>ASM</td> <td>American Society of Metals</td> </tr> <tr> <td>ASME</td> <td>American Society of Mechanical Engineers.</td> </tr> <tr> <td>ASNT</td> <td>American Society of Non-Destructive Testing.</td> </tr> <tr> <td>ASTM</td> <td>American Society for Testing and Materials.</td> </tr> <tr> <td>AWS</td> <td>American Welding Society.</td> </tr> <tr> <td>ISO</td> <td>International Standards Organization.</td> </tr> <tr> <td>OSHA</td> <td>Occupational Safety and Health Administration of the United States Department of Labor.</td> </tr> <tr> <td>SSPC</td> <td>Steel Structures Painting Council.</td> </tr> </table> <p>In the event that the manufacturer intends to fabricate any component outside of the United States, then the use of all materials and the codes and standards local to that country shall apply, provided the Contractor also meets all United States Codes and Standards specified herein and codes and standard applicable at the terminal site.</p>	AFBMA	Anti-Friction Bearing Manufacturers Association.	AISC	American Institute of Steel Construction.	AISI	Association of Iron and Steel Institute.	ANSI	American National Standards Institute (formerly American Standards Association, ASA)	ASM	American Society of Metals	ASME	American Society of Mechanical Engineers.	ASNT	American Society of Non-Destructive Testing.	ASTM	American Society for Testing and Materials.	AWS	American Welding Society.	ISO	International Standards Organization.	OSHA	Occupational Safety and Health Administration of the United States Department of Labor.	SSPC	Steel Structures Painting Council.
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<p><u>2.4</u> <u>Design Criteria</u></p>
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<p><u>2.4.1</u> The Bucket shall be designed and fabricated in compliance with the specifications listed in the above paragraph. In addition, all components, unless otherwise stated, shall have a minimum factor of safety of five (5) based on the ultimate strength of the material used with a minimum of ¼" plate thickness allowances for wear and corrosion allowances.</p>

<p><u>2.5</u> <u>Loading Capacity</u></p>

<p><u>2.5.1</u> The actual working volumetric capacity of the new coal Bucket(s) should be sized to allow for a minimum of 50,000 lbs. of material to be handled per unloader cycle. The total weight of the bucket and product shall be less than 40 MT.</p>

<p><u>2.5.2</u> The density of 55 pcf for coal shall be used for volumetric design purposes and for load and power considerations.</p>
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<p><u>2.6</u> <u>Principal Dimensions</u></p>

<p><u>2.6.1</u> The Manufacturer shall familiarize himself with the existing Metalna crane and bucket configurations prior to submitting his bid. Also, after receipt of order it will be the responsibility of the Bucket Manufacturer to confirm wire rope interface with the existing conditions on the crane prior to submittal of drawings for review by the Engineer or start of fabrication.</p>
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<p><u>2.6.2</u> The Bucket Manufacturer shall include with his bid package the overall control dimensions for the Bucket, pin sizes, bushing sizes, material of construction and hardness, etc. The minimum required dimensional data shall be as shown on Drawing No. ED-1-169.</p>
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<p><u>2.6.3</u> The Bucket(s) size(s) shall be selected to provide a cycle of motions that can be operated safely and efficiently. Allowances to the Bucket shape and size shall be made for effects of compression on the density of the load due to compaction caused when the Bucket is closed.</p>
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<p><u>2.6.4</u> The density(ies) specified in Section 2, Paragraph 2.5.2 shall be used by the manufacturer in determining the Bucket volumetric capacity. In no case shall the combined weight of the Bucket and load exceed the 40 MT (88,000 lbs.) rating of the existing crane.</p>

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| <p>2.6.5 The Manufacturer shall supply with his bid the estimated weight (pounds) and volumetric capacity (cubic yards) of the proposed Bucket(s). ASPA will consider the Bucket dead weight/volume ratio in the bid evaluation process.</p> <p>2.7 Bucket Configuration</p> <p>2.7.1 The Manufacturer shall include with his bid the price, delivery, dimensional drawing, and description of the Bucket(s).</p> <p>2.7.2 The Bucket(s) main structural plate material shall be all T 1 type high strength, abrasion resistant steel. All other steel types shall be selected to maximize the payload/dead weight ratio.</p> <p>2.7.3 The pins and shafts used shall be ASTM 4140 material, heat treated, stress relieved and hardened to a minimum 290 Brinell (BHN) or better. All steel bushings shall be hardened to a minimum of 450 BHN.</p> <p>2.7.3.1. Scoop Hinge</p> <ul style="list-style-type: none">a. Pins - Minimum Size 5.5" diameterb. Bushings – Minimum Thickness .75" <p>2.7.3.2 Upper Arm</p> <ul style="list-style-type: none">a. Pins - Minimum Size 4.0" diameterb. Bushings – Minimum Thickness .5" <p>2.7.3.3 Lower arm</p> <ul style="list-style-type: none">a. Minimum Size 3.5" diameterb. Bushings – Minimum Thickness .5" <p>2.7.3.4 Lower Sheave Pins</p> <ul style="list-style-type: none">a. Pins - Minimum Size 6.5" diameterb. Bushings – Minimum Thickness .75" |
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<p>2.7.3.5 Upper Sheave Pins</p> <ul style="list-style-type: none"> a. Pins - Minimum Size 6.5" diameter b. Bushings - Minimum Thickness .75"
<p>2.7.3.6 Cable Connector Pins</p> <ul style="list-style-type: none"> a. Pins - Minimum Size 4.0" diameter b. Bushings - Minimum Thickness .5"
<p>2.7.4 The Bucket shall be A-514 steel reinforced in all areas that wear and impact will be concentrated. The bucket scoop assembly will have a minimum of two interior stiffeners with exterior re-enforcing pads plus a reinforcing pad at the centerline.</p>
<p>2.7.5 All Bucket lip edges shall be hardened across the entire width to a minimum of 480 BHN. All edges shall be ground smooth for a tight fit.</p>
<p>2.7.6 All gear teeth used in the Bucket design shall be replaceable type, where applicable made from 400 BHN material.</p>
<p>2.7.7 The side walls of the lower block shall be constructed from steel plate with a minimum thickness of 1.25"</p>
<p>2.7.8 The interior surfaces of the Bucket shall be smooth with rounded corners. The Bucket design shall prevent the leakage of material.</p>
<p>2.7.9 Wire rope sheaves shall be mounted on anti-friction tapered roller type bearings with lip type seals equipped for grease lubrication from a convenient location which is protected from damage during Bucket(s) operation. The sheaves shall utilize steel cable guide sheaves/pulleys (instead of guide rollers) heat treated and hardened to 475-525 BHN and fitted with ball bearings. All bearings shall be selected based on a minimum B-10 life of 5,000 hours and the maximum bearing load under any condition shall not exceed the basic static capacity of the bearing. All bearings shall be from Timken or other major manufacturer which is readily available from a local supplier's stock.</p> <p>The sheaves shall be arranged in a 4 part reeving pattern sized for a 1 3/4" diameter 6x37 wire rope for the Metalna crane, with rims hardened to a minimum of 320 BHN and a minimum pitch diameter of 40". The sheaves will be equipped with wipers to protect them from coal.</p>

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<p>2.7.10 Grease fittings will be provided for all sheave bearings, shaft anti-friction bearings, sleeve bearings, pins, moving parts and surfaces in sliding contact shall be by high pressure grease gun., All grease fittings shall be the industrial button-head type made of brass, monel or stainless steel and shall be located at a central location at the base of the support arms next to the scoop assembly, with lubrication lines running in protected casements constructed on the inboard side of the bucket.</p> <p>2.7.11 The lower sheave block shall be provided with a removable access plate to ease reeving cable replacement and with replaceable wipers with bolt-on rubber cover plates to seal out the majority of coal and protect the sheaves and bearings.</p> <p>2.7.12 The Buckets shall be equipped with four lifting lugs to which shackles may be attached for suspension of clean-up bulldozers which will be placed on a barge or in a ship's hold. The assumed weight of the bulldozer shall be at least 16.5 M</p> <p>2.7 <u>Workmanship</u></p> <p>2.8.1 All work shall be done in a thorough workmanlike manner and shall follow the best modern practice in the manufacture of high grade machinery. All work shall be performed by workmen in their particular trades. Fabrication work shall conform to the requirements of AWS.</p> <p>2.8.2 All weld procedures shall be qualified by AWS prior to use. Procedures may be AWS prequalified or they shall be certified as qualified in accordance with AWS by an independent testing laboratory. All welders, welding operators, and tackers shall be certified as qualified for the materials, processes, and type of weld performed. Welds installed using unqualified procedures or by non-qualified welders shall be subject to removal at ASPA's discretion and at the Manufacturer's expense.</p> <p>2.8.3 All work which does not conform to the requirements of the Contract, plans, and specifications will be considered unacceptable, unless otherwise determined acceptable by the OWNER. Unacceptable work found to exist prior to the final acceptance of the work, shall be removed immediately and replaced in an acceptable manner.</p>

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<p>2.9 <u>Materials</u></p> <p>2.9.1 All materials shall be new and unused, and shall ensure reliability and durability under the operating and environmental conditions. Materials shall be suitable for exposure to the environmental conditions or shall be effectively protected from them. Should the local codes or the local environmental conditions at the terminal site be more restrictive than herein specified, the materials shall meet the more restrictive requirements.</p> <p>2.9.2 As a minimum the headblock components shall be manufactured for the following temperature ranges:</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;"><u>Component</u></th> <th style="text-align: center; padding: 5px;"><u>Maximum Low Temp.</u></th> <th style="text-align: center; padding: 5px;"><u>Maximum High Temp.</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Mechanical</td> <td style="text-align: center; padding: 5px;">0°F</td> <td style="text-align: center; padding: 5px;">120°F</td> </tr> <tr> <td style="padding: 5px;">Structural</td> <td style="text-align: center; padding: 5px;">0°F</td> <td style="text-align: center; padding: 5px;">120°F</td> </tr> </tbody> </table> <p>2.9.3 The Manufacturer shall maintain material traceability for all critical structural members from the prime mill source through all manufacturing processes to and including each finished part. Original mill test reports, showing conformance to all specified requirements, shall be available for all material. Random samples for destructive batch tests may be required to verify the mill test reports. Certification papers shall be required from all sources who determine chemistry, cleanliness, mechanical properties, and notch toughness properties. The manufacturer shall provide all items in connection with these requirements at no additional cost to ASPA if requested.</p> <p>2.9.4 Where possible, material shall be domestic to the country where the Bucket(s) is/are manufactured. The intent of this requirement is to maintain the relationship between the manufacturer and his supplier.</p> <p>2.9.5 Material specifications for load bearing parts shall specify minimum chemical, physical, and mechanical properties including both toughness and steel cleanliness, and shall require verification tests and certified test reports. The method(s) and temperature of testing, sampling procedure and criteria for acceptance or rejection shall be specified.</p>	<u>Component</u>	<u>Maximum Low Temp.</u>	<u>Maximum High Temp.</u>	Mechanical	0°F	120°F	Structural	0°F	120°F
<u>Component</u>	<u>Maximum Low Temp.</u>	<u>Maximum High Temp.</u>							
Mechanical	0°F	120°F							
Structural	0°F	120°F							

2.9 Materials

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<u>Component</u>	<u>Maximum Low Temp.</u>	<u>Maximum High Temp.</u>
Mechanical	0°F	120°F
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ALABAMA STATE PORT AUTHORITY
MCDUFFIE COAL TERMINAL DEPARTMENT

DATE:
ORIGINATING DEPT NO.

TO: Prospective Vendors

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2.9.6 Should any question arise on the part of ASPA as to the quality or identity of any materials or equipment incorporated into the Bucket(s) or as to the quality of any work performed thereon or in respect thereof, the manufacturer shall bear the reasonable cost of furnishing evidence that the quality of such materials, equipment, or workmanship complies with the requirements of this Contract or if such materials, equipment, or workmanship are not specifically covered by this Contract that the same are of the intended quality.

2.10 Corrosion Prevention

2.10.1 The Bucket(s) will operate in the coal-dust laden salt air environment of a marine terminal with relative humidity up to 100%. Materials used shall minimize corrosion and maintenance required as a result of corrosion. Pockets where water could collect shall be avoided and, if unavoidable, shall be drained to prevent standing water.

2.10.2 Fasteners and small fittings, whether shielded or not, shall be of non-corroding material such as stainless steel or galvanized. Cadmium or chrome plating is not acceptable.

2.11 Shop Cleaning and Painting

All metallic surfaces of the Bucket(s) shall be painted except nameplates, galvanized steel, marine corrosion-resistant stainless steel, nickel and wearing or internal surfaces of mechanical parts. As used herein, "exposed surfaces" means surfaces exposed to the atmosphere; and "sealed surfaces" means interior surfaces of members sealed by welding and watertight manholes.

(ALTERNATIVE METHODS OF PAINTING WILL BE CONSIDERED.)

2.11.1 Surface Preparation

2.11.1.1 Any dirt, oil, grease, or chemical contamination shall be removed by solvent washing or other suitable means before the start of sandblasting.

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2.11.1.2	All surfaces to be painted shall be cleaned by sandblasting or centrifugal blasting. The steel surfaces shall be cleaned per Steel Structures Painting Council Surface Preparation Specifications No. SSPC SP6-63T "No. 6", Commercial Blast Cleaning. This method of preparing the metal surface shall remove all mill scale, rust, rust scale, paint or foreign matter by use of abrasives propelled through nozzles. Surface preparation of thin plates shall conform to SSPC SP8.
2.11.1.3	The resulting surface shall have a uniform mottled gray appearance and shall have a surface anchor pattern of at least one (1.0) mil and not over one and one-half (1.5) mils.
2.11.1.4	Prior to sandblasting all welds shall be given special attention for removal of welding flux in crevices. Welding spatter, slivers, laminations and underlying mil scale not removed during fabrication and exposed before and during the blast cleaning operation shall be removed by the best mechanical means. <u>All exposed edges of steel shall be rounded to assure proper adhesion and build-up of coatings.</u>
2.11.1.5	The compressed air supply used for sandblasting shall be free of detrimental amounts of water and oil. Separators and traps of a size and type recommended by the compressor manufacturer shall be provided and these shall be emptied prior to passing water and/or oil into the air stream.
2.11.1.6	Only bone dry sandblasting grit or mineral shot procedures will be allowed. Blasting grit shall be Graded Flint, Crystal Silica, Green Diamond, or a synthetic media equal to the preceding.
2.11.1.7	The sandblasted surface shall be rendered dust free prior to the application of any prime coat.
2.11.1.8	No acid washes or other cleaning solutions or solvents shall be used on metal surfaces after being sandblasted. This includes any inhibitive washes intended to prevent rusting.
2.11.1.9	Sandblasting and painting operations shall be scheduled so that they will not be in progress at the same time, or so that blasting is not in progress while there is wet paint within the range of sandblasting contamination. The sandblasted surface shall be coated with one coat of primer, as specified, within four (4) hours of blasting, and also before any visible rusting occurs. Sandblasted steel wet by rain or moisture prior to priming shall be reblasted.

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<p>2.11.1.10 Sandblasting will not be permitted when surfaces are less than 5°F. above dew point or the relative humidity is greater than eighty percent (80%). The only exception to this will be for rough initial sandblasting which will be allowed, provided the surfaces are cleaned and brightened with fresh light sandblasting to provide a "commercial" blasted metal surface.</p>
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<p>2.11.2 <u>Coating Application</u></p>
--

<p>2.11.2.1 All coating materials shall be furnished in unopened, clearly identifiable containers. No mixing of different coatings shall be done without the express permission of ASPA.</p>
--

<p>2.11.2.2 All coats shall be applied in accordance with the paint manufacturer's recommendations and in accordance with the applicable portions of Steel Structures Painting Council Specification (SSPC-PA 1-64) "Shop, Field and Maintenance Painting".</p>

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<p>2.11.2.7 Coatings shall be thinned only as recommended by the paint manufacturer.</p>
--

<p>2.11.2.8 The surfaces shall be clean, free from dust, and shall be dry before and during applications of any coating.</p>
--

<p>2.11.2.9 No coating shall be applied if the relative humidity is greater than eighty percent (80%) or if the temperature is below 40°F.</p>
--

<p>2.11.2.10 All coatings shall be allowed to dry thoroughly and/or allowed to dry the minimum time specified by the paint manufacturer, prior to application of a succeeding coat.</p>

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2.11.2.11	Coatings shall not be applied within six (6) inches (150mm) of unblasted areas.
2.11.2.12	Coating film thickness limits shall be strictly adhered to. The film thickness shall be checked with a micro test or other approved calibrated film thickness gauges. Prior to application of any coat of material, all damage to previous coats shall be thoroughly cleaned and touched up with corresponding specified coating. Damage to finish coatings shall be reprimed.
2.11.2.13	ASPA may make destructive tests of coatings on reasonably small areas to insure adherence of the coating. Cost of the repair of such areas shall be borne by the Manufacturer.
2.11.2.14	The sequence to be followed in painting shall be such that a minimum of damage to finished coating will result.
2.11.2.15	Each coat is to be applied uniformly and completely over the entire surface. Skims, skips, sags, and drips shall not be acceptable.
2.11.2.16	The Manufacturer shall provide step by step procedures for all cleaning and coating conditions to all painters and quality control personnel.
2.11.3	<u>Spray Application</u>
2.11.4	All paint shall be spray applied, except where in accessible to spray and permission has been granted to use brush application. Airless application is acceptable. Coating materials, colors, and minimum mil thicknesses shall be in accordance with the Coating System described in this section.
2.11.5	All coating equipment shall be in good working order. Lines and pots must be cleaned before starting new applications.
2.11.6	<u>Brush Application</u>
2.11.7	Brush application is permitted on sealed surfaces. On exposed surface areas where permission is granted for brush application, care shall be taken that each coat application does not exceed the manufacturer's recommendation for maximum dry film thickness, to avoid "mud cracking".
2.11.8	Brushes shall be of a style and quality that will enable the proper application of materials. Brush width shall be no greater than five (5) inches (125mm).

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2.11.9 Paint shall be worked into all crevices and corners and all runs or sags shall be brushed out in order to assure no air pockets, solvent bubbles, "mud cracks" or voids.

2.12 Coating System

2.12.1 Prime Coat: Shop applied. Prime with one coat of inorganic zinc with 3 mil dft. Carbo Zinc 11 as manufactured by Carboline, or an approved equal.

2.12.2 Intermediate Coat: Shop applied. One coat of epoxy primer with 3 to 5 mil dft., Carboline 893 as manufactured by Carboline or an approved equal.

2.12.3 Top Coat: Shop applied. Top coat is one (1) coat of high build vinyl with 4 mil dft. polyurethane 134 HS as manufactured by Carboline or an approved equal. (**Color to be supplied by ASPA.**)

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2.13 Packaging and Shipping

The manufacturer shall insure that the Bucket and components are packaged in a manner to minimize damage during loading, shipping, and unloading operations.

2.14 Inspection

2.14.1 Quality control shall be the responsibility of the Manufacturer, and he shall be capable of performing all necessary inspections. The Manufacturer's inspection reports shall be furnished to ASPA upon request. The Manufacturer shall assign at least one of his Quality Control employees to the work full time during fabrication.

2.14.2 Welds requirements shall meet the requirements of the applicable Sections of AWS D1.1.

2.14.3 Weld inspection shall be the responsibility of Manufacturer and procedures shall be subject to ASPA review upon request.

2.15 Quality Assurance Program

2.15.1 The Manufacturer shall have a working Quality Assurance Program in existence. The Quality Assurance Program is to include, but is not limited to, providing qualified supervisors, qualified inspectors, required inspections, and records. This program shall assure ASPA that all materials and/or work are supplied and/or conducted in accordance with the applicable codes, applicable shop drawings, this Specification, and proper work practices.

2.15.2 All quality assurance shall be conducted at the Manufacturer's expense.

2.15.3 ASPA maintains the right to engage their own independent testing laboratory for the purpose of performing non-destructive tests on fabricated assemblies or sub-assemblies at the fabrication and assembly site. ASPA reserves the right to reject any defective work and/or materials and such rejection shall not be grounds for extension of the delivery schedule. All re-testing required by failure on initial tests shall be paid for by the Manufacturer. ASPA and its representative shall have full right of access to the Manufacturer's plant.

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<p><u>2.16 Operating Instructions, Maintenance and Inspection Manuals</u></p>

2.16.1 Four (4) copies of printed operating instructions, parts manuals, and maintenance and inspection manuals in the English language, covering operation, spare parts, maintenance and inspection, including routine and major maintenance of mechanical equipment, lubrication recommendations, as-built drawings and both routine and major inspections of the structure shall be furnished. Periods of inspection and lubrication must be clearly indicated. Four (4) copies of general arrangement drawings showing location of all major components shall also be provided.

2.16.2 The maintenance manuals shall include a list of recommended lubricants.

2.17 Spare Parts

The Bucket Manufacturer shall provide with his bid a recommended spare parts list. It shall identify all spare parts to be supplied with the Bucket and a complete summary of the prices, recommended replacement intervals and delivery times. The names, address, telephone number, and fax number of the manufacturer of each recommended spare part shall also be included.

2.18 Manufacturer References

The Bucket Manufacturer shall provide with the bid a users list of all Buckets of similar capacity (20 Tons and over), design capacity, and model which are currently in service. This list shall note the number of years in service and material type handled.

2.19 Acceptance Testing and Inspection

2.19.1 Upon completion of the fabrication process, the Manufacturer will inspect and test the Bucket(s) to insure compliance with all specifications. This is to be done prior to shipping the Bucket to ASPA. The Manufacturer shall be responsible for notifying ASPA seven (7) days in advance of the final testing. The ASPA Engineer shall witness the final testing. Reports of these tests and inspections are to be submitted to ASPA.

2.19.2 Upon delivery of the Bucket(s) to ASPA, they shall be inspected, installed, and tested by an ASPA representative. If there is damage or defects found, the Manufacturer shall bear the expense of correcting the items until the Bucket is found to pass inspection.

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2.20 Final Inspection and Punch List

2.20.1 Upon successful completion of the operational tests at the site, an inspection shall be conducted by ASPA's representative. This inspection shall identify any remaining work, missing parts, and defects. If all construction provided for and contemplated by the Contract is found to be completed in accordance with the Contract, plans and specifications, such inspection shall constitute the final inspection. The Engineer shall notify the Contractor in writing of final acceptance as of the date of the final inspection.

2.20.2 A punch list will be compiled by the ASPA representative indicating items found during the inspection. This list will be distributed to both ASPA and the Manufacturer. Final acceptance will not be considered until all items noted in the punch list have been supplied or corrected to ASPA's satisfaction.

2.21 Submittals

2.21.1 Proposal Drawings - The Manufacturer shall submit with his proposal the following drawings of each proposed Bucket:

General arrangement (reference Drawing No. ASPA ED-1-169 for minimum requirements).

Sheave assembly drawing.

In addition, each proposed Bucket(s) general arrangement drawing shall list the estimated Bucket weight and Bucket operating volume.

2.21.2 Approval Drawings

The Supplier shall provide three sets of approval drawings and equipment specification/data sheets for all new components.

2.21.3 CERTIFIED DRAWINGS

The Supplier shall provide five sets of certified drawings and equipment specification/data sheets for all components.

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The Contractor shall comply with all Federal and State laws, local ordinances and regulations, and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work.

SHIPPING

- A. Buckets shall ship fully assembled.
- B. **All items are to be shipped FOB (FREE OF CHARGE) to:**
 ALABAMA STATE PORT AUTHORITY
 MCDUFFIE COAL TERMINAL
 1901 EZRA TRICE BLVD
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It is mandatory that the Supplier fill out this sheet with the required information & submit it with the proposal. The Contractor hereby agrees to provide all equipment and materials listed and perform the work specified in this proposal, specification, and drawings for the prices outlined in the following schedule:

1. One gantry crane reeved clam shell bucket for the Matalna Crane.	1	Lot	Lump Sum Total \$_____
2. Delivery, to ASPA storage site		Wks	
3. Spare Parts	1	Lot	Lump Sum Total \$_____
Contract will be awarded based on delivery, cost, design and qualifications			
ASPA reserves the right to delete any of the items listed.			
The Manufacturer shall supply with his bid the estimated weight (pounds) and volumetric capacity (cubic yards) of the proposed Bucket(s). ASPA will consider the Bucket dead weight/volume ratio in the bid evaluation process.			

Company Name: _____

Authorized Signature: _____ Print Name: _____

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Bid opening will be March 12, 2019 @ 10:00 a.m. in the McDuffie Terminal Conference Room. NO BIDS WILL BE ACCEPTED AFTER THIS TIME.

PLEASE SEE ATTACHED INDEMNIFICATION SHEET & DISCLOSURE STATEMENT

Company

Address

Representative

Phone Number

Email

ALL BIDS MUST BE NOTARIZED

STATE OF _____)

COUNTY OF _____)

On this ___ day of _____, 20___, before me appeared _____, to me personally known, who, being by me duly sworn, did say that such person executed the foregoing instrument as the free act and deed of such person, having been duly authorized to execute such instrument in such capacity.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Notary Public, State of _____

Print Name

My commission expires: _____

THIS PAGE MUST BE NOTARIZED

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Alabama State Docks/Port Authority

Bid Description: Clamshell Bucket for M-Crane

Bids to be Open: 3/12/19

The following paragraph shall be considered a part of the above referenced bid:

Indemnification Clause

The Contractor shall assume all liability for and shall indemnify and save harmless the **State of Alabama** and the **Alabama State Docks/Port Authority** and its officers and employees from all damages and liability for injury to any person or persons, and injury to or destruction of property, including the loss of use thereof, by reason of an accident or occurrence arising from operations under the contract, whether such operations are performed by himself or by any subcontractor or by anyone directly or indirectly employed by either of them occurring on or about the premises, or the ways and means adjacent during the term of the contract, or any extension thereof, and shall also assume the liability for injury and/or damages to adjacent or neighboring property by reason of work done under the contract.

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Please use this as a **guide only** for proper delivery.

Sender Name & Address

Alabama State Port Authority
McDuffie Coal Terminal
Postal Address for US Mail
Physical Address for Courier Service

Sealed Bid: (Description)

Bid Opening Date:

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Please return one copy of this bid, duly signed, by **10:00 a.m., March 12, 2019.**

When all bids are publicly opened, UNIT PRICES AND EXTENSIONS shall be entered opposite each item above on which you are prepared to bid for delivery **FREE OF CHARGE TO - McDuffie Coal Terminal (FOB) ALABAMA STATE DOCKS**

No consideration will be given bids unless on this form or a written attachment.

If not prepared to submit a bid, please state over the firm signature and return so that it may be known it was brought to your attention; otherwise your name may be dropped from the list of prospective vendors.

The right is reserved to reject any and all bids deemed for the interest of the Alabama State Port Authority, to strike out any item or items in the bids, and to waive any defect or irregularly not a violation of law or to make any modification in the several conditions herein stipulated that are deemed to be in the best interest of the Alabama State Port Authority, including the separation of items of a class in making awards. In general, awards will be made to the lowest satisfactory vendor.

No Allowance will be made for errors, either of omission or commission, on the part of the vendors. It must be assumed that vendors have fully informed themselves as to all conditions, requirements, and specifications before submitting bids and they cannot expect to be excused or relieved from the responsibility assumed by their bids on the plea of error. In case of error in extension of prices the unit price will govern.

The Port Authority reserves the right to refuse to issue a bid form or a contract to a prospective vendor for any of the following reasons:

- a) Failure to pay, or satisfactorily settle, all bills due for labor and materials on a former contract in force with the Port Authority.
- b) Contractor default under a previous Contract with the Port Authority.
- c) Bid withdrawal or Bid Bond forfeiture on a previous project with the Port Authority.
- d) Unsatisfactory work on a previous contract with the Port Authority.

Port Authority may make such investigations as deemed necessary to determine the ability of the vendor to perform the work, and the vendor shall furnish all such information and data for this purpose as the Port Authority may request. The Port Authority reserves the right to reject any bid if the evidence submitted by, or investigation of, such vendor fails to satisfy the Port Authority that such vendor is properly qualified to carry out the obligations of the Contract.

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ALABAMA STATE PORT AUTHORITY ACCESS POLICY

IMPORTANT NOTICE TO VENDORS REGARDING ACCESS TO ASPA RESTRICTED FACILITIES:

Successful vendors requiring access to the Alabama State Port Authority's Restricted Facilities to fulfill any obligations set forth in this bid must comply fully with the Authority's Access Policy found in its entirety at http://www.asdd.com/portaccess_policy.html The Port Authority's Access Policy requires all persons permanently employed at the port, including ASPA staff, tenants and their employees, surveyors, agents, stevedores, longshoremen, chaplains, contract labor and persons requesting temporary access to the port, including delivery persons, vendors, contractors, and temporary workers must obtain and display an ASPA issued photo ID badge or visitor badge at all times when accessing or working on port property. In order to obtain an ASPA credential, applicants must also obtain a Transportation Worker Identification Credential (TWIC) and undergo mandatory Security Awareness Training. Information on the TWIC can be found at http://www.asdd.com/portaccess_twicregs.html

Information on Security Awareness Training classes and scheduling can be found at http://www.asdd.com/portaccess_securitytraining.html

ALL PROSPECTIVE VENDORS ARE ENCOURAGED TO REVIEW THESE POLICIES AND CONSIDER THESE REQUIREMENTS IN PREPARING BID SUBMISSIONS.

INSTRUCTIONS FOR VENDORS

ALABAMA STATE PORT AUTHORITY

This instruction sheet is provided as a guide to facilitate the bid process and highlight important points for consideration by vendors. Each vendor is responsible for fully reading and complying with the instructions on the Alabama State Port Authority bid form. **This instruction sheet is to be used as a guide only.**

1. No consideration will be given to bids unless presented on the Alabama State Port Authority "Requisition & Proposal" Form with suitable attachments as deemed necessary by the vendor. Alternate bid proposals may be rendered, with proper support.
2. If your company is not prepared to submit a bid, so state and sign to avoid being deleted from the prospective vendor's list.
3. The Alabama State Port Authority reserves the right to reject any and all bids if deemed in the Alabama State Port Authorities' interest.
4. No allowance will be made for error, either omission or commission.
5. Unit price governs in errors relating to extension of prices.
6. **Bids will not be accepted via FAX or email.** All bids must be sealed and sent via mail or hand delivered to the McDuffie Coal Terminal Office before the specified date and time.
7. The Alabama State Port Authority accepts no responsibility for facilitating the receipt of bids.
8. All bids must be notarized.
9. Bids received after specified opening time will be returned to the vendor unopened. Vendors are requested to show a return address on the bid envelope.
10. Bids must be filled out completely, including the name, address, telephone number, fax number (if possible) and signature of responsible person.
11. **Questions may be directed to** the Alabama State Port Authority McDuffie Coal Terminal, Dillon Sims, **at (251) 441-7676.**
12. **All hand delivered bids** must be tendered to Alabama State Port Authority, McDuffie Coal Terminal Office 1901 Ezra Trice Blvd., Mobile AL 36603, at or before specified time.
13. **All regular U.S. Postal Mail** must be tendered to:
ASPA - McDuffie Coal Terminal
ATTN: Dillon Sims
P.O. Box 1588
Mobile, AL 36633-1588
NOTE: THIS METHOD MUST BE MAILED AT LEAST A WEEK BEFORE THE OPENING. PLEASE IDENTIFY YOUR BID PACKAGE!!
14. **All courier / overnight deliveries** (UPS, FEDEX, etc.) must be delivered to:
ASPA - McDuffie Coal Terminal
ATTN: Dillon Sims
1901 Ezra Trice Blvd.
Mobile, AL 36603
RECOMMENDED METHOD
PLEASE IDENTIFY YOUR BID PACKAGE!!
15. Note: all overnight bids must be **FIRST PRIORITY OVERNIGHT. (8:30 A.M. NEXT MORNING)**
16. Notarization not required on "SALE" bids.
17. Please specify the purchase order number (when available) on envelope.



State of Alabama

Disclosure Statement

Required by Article 3B of Title 41, Code of Alabama 1975

ENTITY COMPLETING FORM

ADDRESS

CITY, STATE, ZIP

TELEPHONE NUMBER

STATE AGENCY/DEPARTMENT THAT WILL RECEIVE GOODS, SERVICES, OR IS RESPONSIBLE FOR GRANT AWARD

ADDRESS

CITY, STATE, ZIP

TELEPHONE NUMBER

This form is provided with:

- Contract
 Proposal
 Request for Proposal
 Invitation to Bid
 Grant Proposal

Have you or any of your partners, divisions, or any related business units previously performed work or provided goods to any State Agency/Department in the current or last fiscal year?

- Yes
 No

If yes, identify below the State Agency/Department that received the goods or services, the type(s) of goods or services previously provided, and the amount received for the provision of such goods or services.

STATE AGENCY/DEPARTMENT	TYPE OF GOODS/SERVICES	AMOUNT RECEIVED
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Have you or any of your partners, divisions, or any related business units previously applied and received any grants from any State Agency/Department in the current or last fiscal year?

- Yes
 No

If yes, identify the State Agency/Department that awarded the grant, the date such grant was awarded, and the amount of the grant.

STATE AGENCY/DEPARTMENT	DATE GRANT AWARDED	AMOUNT OF GRANT
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1. List below the name(s) and address(es) of all public officials/public employees with whom you, members of your immediate family, or any of your employees have a family relationship and who may directly personally benefit financially from the proposed transaction. Identify the State Department/Agency for which the public officials/public employees work. (Attach additional sheets if necessary.)

NAME OF PUBLIC OFFICIAL/EMPLOYEE	ADDRESS	STATE DEPARTMENT/AGENCY
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2. List below the name(s) and address(es) of all family members of public officials/public employees with whom you, members of your immediate family, or any of your employees have a family relationship and who may directly personally benefit financially from the proposed transaction. Identify the public officials/public employees and State Department/Agency for which the public officials/public employees work. (Attach additional sheets if necessary.)

NAME OF FAMILY MEMBER	ADDRESS	NAME OF PUBLIC OFFICIAL/ PUBLIC EMPLOYEE	STATE DEPARTMENT/ AGENCY WHERE EMPLOYED
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If you identified individuals in items one and/or two above, describe in detail below the direct financial benefit to be gained by the public officials, public employees, and/or their family members as the result of the contract, proposal, request for proposal, invitation to bid, or grant proposal. (Attach additional sheets if necessary.)

Describe in detail below any indirect financial benefits to be gained by any public official, public employee, and/or family members of the public official or public employee as the result of the contract, proposal, request for proposal, invitation to bid, or grant proposal. (Attach additional sheets if necessary.)

List below the name(s) and address(es) of all paid consultants and/or lobbyists utilized to obtain the contract, proposal, request for proposal, invitation to bid, or grant proposal:

NAME OF PAID CONSULTANT/LOBBYIST	ADDRESS
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By signing below, I certify under oath and penalty of perjury that all statements on or attached to this form are true and correct to the best of my knowledge. I further understand that a civil penalty of ten percent (10%) of the amount of the transaction, not to exceed \$10,000.00, is applied for knowingly providing incorrect or misleading information.

Signature _____ Date _____

Notary's Signature _____ Date _____ Date Notary Expires _____

Article 3B of Title 41, Code of Alabama 1975 requires the disclosure statement to be completed and filed with all proposals, bids, contracts, or grant proposals to the State of Alabama in excess of \$5,000.

Revised: 09/2013

THIS PAGE MUST BE NOTARIZED

REQUISITION & PROPOSAL

ALABAMA STATE PORT AUTHORITY
MCDUFFIE COAL TERMINAL DEPARTMENT

DATE:
ORIGINATING DEPT NO.

TO: Prospective Vendors

Please procure the following and **DELIVER TO:**

ALABAMA STATE PORT AUTHORITY
MCDUFFIE COAL TERMINAL OFFICE
1901 EZRA TRICE BLVD
MOBILE, AL 36602

NAMES OF ARTICLES, SPECIFICATIONS AND PURPOSE

INDEMNIFICATION AGREEMENT

_____ does hereby assume all liability for and shall indemnify and hold harmless the State of Alabama and the Alabama State Port Authority and its officers and employees from all damages and liability for injury to any persons and injury to or destruction of property, by reason of any accident or occurrence arising during, or resulting from taking field measurements at McDuffie Coal Terminal's M-Crane while on the property of the Alabama State Port Authority. Activity on property is for the purposes of the upcoming Clamshell Bucket Bid on March 12, 2019.

By: _____
(Its Authorized Representative)

Date: _____

Receipt Acknowledged by: _____
(Alabama State Port Authority Representative)

Clamshell Bucket for M-Crane