REQUEST FOR BIDS/PROPOSALS COVERSHEET
THE UNIVERSITY OF SOUTHERN MISSISSIPPI
Procurement and Contract Services
118 College Drive #5003, Hattiesburg, Mississippi  39406-0001

Date: February 6, 2019

Bid No. 19-24

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 in Bond Hall, Room 214 on or before: 2:00 p.m. CST

February 27, 2019

Buyer: Deidre Edwards

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.

<table>
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<th>ITEM</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>DESCRIPTION</td>
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<td>BID 19-24</td>
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<tr>
<td>Wilber Hall MDP and Motor Control Center</td>
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PROPOSAL MUST BE RETURNED TO THE UNIVERSITY IN ACCORDANCE WITH THE SPECIFICATIONS. RFP 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.

Signature Required

AA/EOE/ADA1
THE UNIVERSITY OF SOUTHERN MISSISSIPPI
Request for Bids (BID) 19-24
Wilber Hall MDP and Motor Control Center

ISSUE DATE: February 6, 2019
ISSUING AGENCY: Procurement and Contract Services
The University of Southern Mississippi
214 Bond Hall
118 College Drive #5003
Hattiesburg, MS 39406

INTRODUCTION
The University of Southern Mississippi is seeking bid responses for the Wilber Hall MDP and Motor Control Center. This bid does not include installation; all installation labor will be handled by The University of Southern Mississippi.

SUBMISSION INFORMATION
Responses shall be submitted in a sealed package and include one (1) original and two (2) copies. Please make sure that the BID number is clearly visible on the outside of the package.

The proposal package must be received on or before Wednesday, February 27, 2019, at 2:00 PM. It is the responsibility of the respondent to ensure that the proposal package arrives in the Procurement and Contract Services Office. The proposal package should be delivered or sent by mail to:

Procurement and Contract Services
The University of Southern Mississippi
214 Bond Hall
118 College Drive #5003
Hattiesburg, MS 39406

Your response must include the signature page included in this BID (Appendix A) and contain the signature of an authorized representative of the respondent’s organization.

USM reserves the right to reject any and all responses and to waive informalities and minor irregularities in proposals received and to accept any portion of a response or all items bid if deemed in the best interest of the University to do so.

No bid may be withdrawn after the scheduled closing time for a period of sixty (60) days. The University of Southern Mississippi reserves the right to reject any or all bids on any or all projects and to waive informalities.

Responses received after the stated due date and time will not be opened or considered.
QUESTIONS AND/OR CLARIFICATIONS
Care has been taken to develop this Request for Bids (BID) accurately and present it clearly, but in the event any specification or condition appears ambiguous or in error, proposers have a duty to seek clarification of ambiguities or corrections to errors. The BID procedures provide a time frame for questions and answers. It is important to remember that if a respondent or interested party protests, but had opportunities to seek clarification and failed to do so, then its interpretation will not be considered reasonable and the specification will not be considered ambiguous. Prospective respondents should make written inquiries concerning this BID to obtain clarification of any requirements as desired. Please direct all inquiries about this BID in writing via electronic mail as follows:

Questions of a Technical Nature
David Bounds
Physical Plant Department
david.bounds@usm.edu
601-266-6253

Questions Related to Submission Procedures
Deidre Edwards
Procurement Services
deidre.edwards@usm.edu
601-266-4132

All inquiries’ subject line should read “URGENT INQUIRY. USM BID #19-24”

ADDENDUM OR SUPPLEMENT TO BID
In the event it becomes necessary to revise any part of this BID, an addendum to this BID will be provided. Respondents shall not rely on any other interpretations, changes or corrections.

It is the respondent's responsibility to assure that all addenda have been reviewed and, if applicable, signed and returned.

QUALIFICATIONS FOR AWARD
The award, if any, shall be made to the lowest priced responsive and responsible bidder. Acceptance shall be confirmed by the issuance of a Purchase Order from the University.

USM reserves the right to award this contract in whole or in part depending on what is in the best interest of USM with USM being the sole judge thereof.

ACCEPTANCE TIME
Response shall be valid for one-hundred and eighty (180) days following the response due date.

BID CANCELLATION
This BID in no manner obligates USM to the eventual purchase of any services described, implied or which may be proposed until confirmed by a written contract. Progress towards this end is solely at the discretion of USM and may be terminated without penalty or obligations at any time prior to the signing of a contract. USM reserves the right to cancel this BID at any time, for any reason, and to reject any or all proposals or any parts thereof.
TECHNICAL SPECIFICATIONS

LOW VOLTAGE INDUSTRIAL MOTOR CONTROL CENTERS

PART 1   GENERAL

1.01 DESCRIPTION
A. This section includes requirements for a motor control center (MCC) and all required control devices as shown on the drawing and specified to be part of the MCC equipment. The MCC shall be 208 V, 3-Phase, 4-Wire, 60 Hz unless otherwise indicated.

1.02 SUBMITTALS
A. Submit with the delivery of the MCC an Installation and Maintenance Manual and one (1) copy of the manufacturer’s drawings per shipping block.

1.03 REGULATORY REQUIREMENTS
A. The MCC must conform to Underwriters Laboratory (UL) 845, current revision, CSA, EEMAC, NEMA ICS-2, the latest version of the National Electrical Code, and the Canadian Electrical Code. The MCC must be manufactured in an ISO 9001 certified facility.

1.04 PACKING/SHIPPING
A. The MCC shall be separated into shipping blocks no more than three vertical sections each. Shipping blocks shall be shipped on their sides to permit easier handling at the jobsite. Each shipping block shall include a removable lifting angle, which will allow an easy means of attaching an overhead crane or other suitable lifting equipment.

1.05 STORAGE
A. If the MCC cannot be placed into service reasonably soon after its receipt, store it in a clean, dry and ventilated building free from temperature extremes. Acceptable storage temperatures are from 0° C (32° F) to 40° C (104° F).

1.06 WARRANTY
A. The MCC shall be warranted to be free from defects in materials and workmanship for a period of eighteen (18) months from date of invoice from manufacturer or authorized sales channel.

PART 2   PRODUCT

2.01 MANUFACTURERS
A. Shall be Square D brand or equal.
2.02 MATERIALS

A. Steel material shall comply with UL 845 and CSA requirements.

B. Each MCC shall consist of one or more vertical sections of heavy gauge steel bolted together to form a rigid, free-standing assembly. A removable 7 gauge structural steel lifting angle shall be mounted full width of the MCC shipping block at the top. Removable 7 gauge bottom channel sills shall be mounted underneath front and rear of the vertical sections extending the full width of the shipping block. Vertical sections made of welded side-frame assembly formed from a minimum of 12 gauge steel. Internal reinforcement structural parts shall be of 12 and 14 gauge steel to provide a strong, rigid assembly. The entire assembly shall be constructed and packaged to withstand normal stresses included in transit and during installation.

2.03 MCC FINISH

A. All steel parts shall be provided with UL and CSA listed acrylic/alkyd baked enamel paint finish, except plated parts used for ground connections. All painted parts shall undergo a multi-stage treatment process, followed by the finishing paint coat.

B. Pre-treatment shall include:
   1. Hot alkaline cleaner to remove grease and oil.
   2. Iron phosphate treatment to improve adhesion and corrosion resistance.

C. The paint shall be applied using an electro-deposition process to ensure a uniform paint coat with high adhesion.

D. The standard paint finish shall be tested to UL 50 per ASTM B117 (5% ASTM Salt Spray) with no greater than 0.125 in (3 mm) loss of paint from a scribed line.

E. Paint color shall be #49 medium light gray per ANSI standard Z55.1-967 (60-70 gloss) on all surfaces unless specified otherwise. Control station plates and escutcheon plates shall be painted a contrasting gray. All unit interior saddles shall be painted white for better visibility inside the unit.

F. Motor Control Center finish must match that of the Switchboard.

2.04 STRUCTURES

A. Structures shall be totally enclosed, dead-front, free-standing assemblies. Structures shall be capable of being bolted together to form a single assembly.

B. The overall height of the MCC shall not exceed 90 in (2286 mm) (not including base channel or lifting angle). Base channels, of 1.5 in (38 mm) in height, and lifting angles, of 3 in (76 mm) in height, shall be removable. The total width of one section shall be 20 in (508 mm); (widths of 25 in (630 mm),
30 in (760 mm), and 35 in (890 mm) can be used for larger devices).

C. Structures shall be NEMA/EEMAC type 1 (general purpose).

D. Each 20 in wide standard section shall have all the necessary hardware and bussing for modular plug-in units to be added and moved around. All unused space shall be covered by hinged blank doors and equipped to accept future units. Vertical bus openings shall be covered by manual bus shutters.

E. Each section shall include a top plate (single piece or two-piece). Top plates shall be removable for ease in cutting conduit entry openings.

2.05 WIREWAYS

A. Structures shall contain a minimum 12 in (305 mm) high horizontal wireway at the top of each section and a minimum 6 in (152 mm) high horizontal wireway at the bottom of each section. These wireways shall run the full length of MCC to allow room for power and control cable to connect between units in different sections.

B. A full-depth vertical wireway shall be provided in each MCC section that accepts modular plug-in units. The vertical wireway shall connect with both the top and bottom horizontal wireway and shall be isolated from unit interiors by a full height barrier. The vertical wireway shall be 4 in (102 mm) wide minimum with a separate hinged door. There should be a minimum of 80 in² (516 cm²) of cabling space available for 20-inch-deep sections. Access to the wireways shall not require opening control unit doors.

2.06 BARRIERS

A. All power bussing and splice connections shall be isolated from the unit compartments and the wireways. The horizontal bus shall be mounted onto a glass filled polyester support assembly that braces the bus against the forces generated during a short circuit. The horizontal bus shall be isolated from the top horizontal wireway by a two-piece rigid non-conductive barrier. The barrier design shall allow qualified personnel to slide the barriers both left and right, to allow access to the bus and connections for maintenance without having to remove the barrier. Barrier sliding shall occur via an upper and lower track system.

B. The vertical bus shall be housed in a molded glass-filled polyester support that provides bus insulation and braces the bus against the forces generated during a short circuit. These supports shall have openings every 3 in (75 mm) for unit stab-on connections. Each opening shall be provided with a manual shutter to close off the stab opening. These shutters shall be attached to the structure so that when they are removed (to allow a stab connection) they are retained in the structure and are readily accessible for use should a plug-in unit be removed from the MCC.

C. Barriers shall be provided in the vertical structure and unit designs to prevent
the contact of any energized bus or terminal by a fishtape inserted through
the conduit or wireway areas.

2.07 BUSSING

A. All bussing and connectors shall be tin-plated copper.

B. The main horizontal bus shall be rated at 600 A continuous and shall extend
the full length of the MCC. Bus ratings shall be based on 65° C maximum
temperature rise in a 40° C ambient. Provisions shall be provided for splicing
additional sections onto either end of the MCC.

C. The horizontal bus splice bars shall be pre-assembled into a captive bus
stack. This bus stack is installed into the end of the MCC power bus to allow
the installation of additional sections. The main bus splice shall utilize four
bolts, two on each side of the bus split, for each phase. Additional bolts must
not be required when splicing higher amperage bus. The splice bolts shall
secure to self clenching nuts installed in the bus assembly. It shall be
possible to maintain any bus connection with a single tool.

D. Each section that accepts plug-in units shall be provided with a vertical bus
for distributing power from the main bus to the individual plug-in starter
units. This bus shall be of the same material and plating as the main bus, and
shall be rated at 300 A continuous. The vertical bus shall be connected
directly to the horizontal bus stack without the use of risers or other
intervening connectors. It shall be possible to maintain the vertical to
horizontal bus connection with a single tool. "Nut and bolt" bus connections
to the power bus shall not be permitted.

E. A tin-plated copper ground bus shall be provided that runs the entire length
of the MCC. The ground bus shall be 0.25 in (6.0 mm) x 1.0 in (25 mm) and
be rated for 300 amps. A compression lug shall be provided in the MCC for a
4/0-250 kcmil ground cable. The ground bus shall be provided with (6) 0.38 in
(10 mm) holes for each vertical section to accept customer-supplied ground
lugs for any loads requiring a ground conductor.

F. Each vertical section shall have a tin-plated copper vertical ground bus that is
connected to the horizontal ground bus. This vertical ground bus shall be
installed so that the plug-in units engage the ground bus prior to
engagement of the power stabs and shall disengage only after the power
stabs are disconnected upon removal of the plug-in unit.

G. The system shall be rated for an available short circuit capacity of 65,000 rms
amperes.

2.08 TYPICAL UNIT CONSTRUCTION

A. All surfaces (back, side and bottom plates) of the unit interior shall be
painted white.

B. All conducting parts on the line side of the unit disconnect shall be shrouded
by a suitable insulating material to prevent accidental contact with those parts.

D. Unit mounting shelves shall include hanger brackets to support the unit weight during installation and removal. All plug-on units shall use a twin-handle camming lever located at the top of the bucket to rack in and out the plug-on unit. The cam lever shall work in conjunction with the hanger brackets to ensure positive stab alignment.

E. A lever handle operator must be provided on each disconnect. With the unit stabs engaged onto the vertical phase bus and the unit door closed, the handle mechanism shall allow complete ON/OFF control of the unit. All circuit breaker operators shall include a separate TRIPPED position to clearly indicate a circuit breaker trip condition. It shall be possible to reset a tripped circuit breaker without opening the control unit door. Clear indication of disconnect status shall be provided, by adhering to the following operator handle positions:

1. Handle "On" position must be up or to the left and within 45 degrees of being parallel to the face of the equipment.
2. Handle "Off" position must be down or to the right and within 45 degrees of being parallel to the face of the equipment.
3. The minimum separation between the "On" and "Off" positions shall be 90 degrees.
4. On Circuit Breaker disconnects, the handle "Tripped" position must be perpendicular to the face of the equipment +/- 30 degrees. Minimum separation between "On" and "Tripped" shall be 30 degrees. Minimum separation between "Tripped" and "Off" shall be 45 degrees.
5. Lever handle must be constructed from metal.
6. Rotary handles are unacceptable.

F. A mechanical interlock shall prevent the operator from opening the unit door when the disconnect is in the ON position. Another mechanical interlock shall prevent the operator from placing the disconnect in the ON position while the unit door is open. It shall be possible for authorized personnel to defeat these interlocks.

G. A non-defeatable interlock shall be provided to prevent installing or removing a plug-on unit unless the disconnect is in the OFF position.

H. The plug-in unit shall have a grounded stab-on connector which engages the vertical ground bus prior to, and releases after, the power bus stab-on connectors.

I. Provisions shall be provided for locking all disconnects in the OFF position with up to three padlocks.

J. Handle mechanisms shall be located on the left side to encourage operators to stand to the left of the unit being switched.

K. Unit construction shall combine with the vertical wireway isolation barrier to
provide a fully compartmentalized design.

2.09 COMPONENTS FOR TYPICAL UNITS

A. Combination Starters

1. All combination starters shall utilize a unit circuit breaker disconnect. Magnetic starters shall be furnished in all combination starter units. All starters shall utilize NEMA/EEMAC rated contactors. Starters shall be provided with a three-pole, external manual reset, overload relay for eutectic melting alloy thermal overload units.

2. When provided, control circuit transformers shall include two primary protection fuses and one secondary fuse (in the non-ground secondary conductor). The transformer shall be sized to accommodate the contactor(s) and all connected control circuit loads. The transformer rating shall be fully visible from the front when the unit door is opened.

3. When a unit control circuit transformer is not provided, the disconnect shall include an electrical interlock for disconnection of externally powered control circuits.

4. Auxiliary control circuit interlocks shall be provided where indicated. Auxiliary interlocks shall be field convertible to normally open or normally closed operation.

5. NEMA/EEMAC Size 1-4 starters shall be mounted directly adjacent to the wireway so that power wiring (motor leads) shall connect directly to the starter terminals without the use of interposing terminals.

6. IEC built NEMA rated starters and overload relays are unacceptable. Use NEMA components.

7. NEMA starters provided must be serviceable by featuring replaceable contacts.

B. Terminal Blocks

1. All starter units shall be provided with unit control terminal blocks, Type B wiring.

2. Terminal blocks shall be the pull-apart type 600 volt and rated at 25 amps. All current carrying parts shall be tin plated. Terminals shall be accessible from inside the unit when the unit door is opened. Terminal blocks shall be DIN rail mounted with the stationary portion of the block secured to the unit bottom plate. The stationary portion shall be used for factory connections, and shall remain attached to the unit when removed. The terminals used for field connections shall face forward so they can be wired without removing the unit or any of its components.

C. Nameplates

1. Shall be engraved phenolic nameplates for each MCC and unit compartment. Shall be gray background with white letters, measuring a
minimum of 1.5 in (38 mm) H x 6.25 in (159 mm) W total outside dimensions.

D. Pilot Device Panel

1. Each combination starter unit shall be proved with a hinged/removable control station plate, which can accommodate up to five 22 mm pilot devices devices.

2.10 SIX INCH UNIT CONSTRUCTION

A. Units with circuit breaker disconnects through 250 A frame, and fusible switch disconnects through 100 A, shall connect to the vertical bus through a spring-reinforced stab-on connector. Six inch fusible units shall accept Class J fuses only.

B. All conducting parts on the line side of the unit disconnect shall be shrouded by a suitable insulating material.

C. Unit mounting shelves shall include hanger brackets to support the unit weight during installation and removal. All six inch plug-on units shall be installable without the assistance of a camming device so as to allow maximum accessibility with the unit installed.

D. A lever handle operator must be provided on each disconnect. With the unit stabs engaged into the vertical phase bus and the unit door closed, the handle mechanism shall allow complete ON/OFF control of the unit disconnect with clear indication of the disconnects status. All circuit breaker operators shall include a separate TRIPPED position to clearly indicate a circuit breaker trip condition. It shall be possible to reset a tripped circuit breaker without opening the control unit door.

1. A mechanical interlock shall prevent an operator from opening the unit door when the disconnect is in the ON position. Another mechanical interlock shall prevent an operator from placing the disconnect in the ON position while the door is open. It shall be possible for authorized personnel to defeat these interlocks.

2. A non-defeatable interlock shall be provided between the handle operator and the structure to prevent installing or removing a plug-on unit unless the disconnect is in the OFF position. The plug-on unit shall have a grounded stab-on connector which engages the vertical ground bus prior to, and releases after, the power bus stab-on connectors.

3. Lever handle must be constructed from metal.

4. Rotary handles are unacceptable.

E. Provisions shall be made for locking all disconnects in the OFF position with up to three padlocks.

F. Handle mechanisms shall be located on the bottom left side of the unit and
operate horizontally to encourage operators to stand to the left of the unit being switched.

G. Unit construction shall combine with the vertical wireway isolation barrier to provide a fully-compartmentalized design.

H. Up to a maximum of twelve six inch units can be installed per vertical section without placement restrictions in new or existing applications.

2.11 COMPONENTS FOR SIX INCH UNITS

A. Six Inch Combination Starters

1. All six inch combination starters shall use a unit disconnect as specified in the previous article. All starters shall use NEMA/EEMAC-rated contactors. Starter units shall be provided with a 3-pole, external manual reset, overload relay for eutectic melting alloy (NEMA rated units only) motor overload protection.

2. When provided, control circuit transformers shall include two primary protection fuses and one secondary fuse (in the non-ground secondary conductor.) The transformer shall be sized to accommodate the contactor(s) and all connected control circuit loads.

3. When a unit control circuit transformer is not provided, the disconnect shall include an electrical interlock for disconnection of externally powered control circuits.

4. Auxiliary control circuit interlocks shall be provided where indicated. For NEMA rated starters, auxiliary interlocks shall be field convertible to normally open or normally closed operation.

5. NEMA/EEMAC Size 1 starters shall be mounted directly adjacent to the wireway so that power wiring (motor leads) will connect directly to the starter terminals.

6. IEC built NEMA rated starters and overload relays are unacceptable. Use NEMA components.

7. NEMA starters provided must be serviceable by featuring replaceable contacts.

B. Terminal Blocks for Six Inch Units

1. All starter units shall be provided with unit control terminal blocks.

2. Terminal blocks shall be pull-apart type, 250 V, and rated for 10 amperes. All current-carrying parts shall be tin-plated. Terminals shall be accessible from inside the unit when the unit door is opened. The stationary portion of the terminal block shall be used for factory connections and will remain attached to the unit when the portion used for field connections is removed. The terminals used for field connections shall be accessible so they can be wired without removing the unit or any of its components.
C. Nameplates
   1. Engraved phenolic nameplates shall be provided for each MCC and unit compartment. Each nameplate shall have a gray background, white lettering, and measure a minimum of 1.5 in H x 6.25 in W (38 mm H x 150 mm W) total outside dimensions.

D. Pilot Device Control Panel
   1. Each unit to be provided with a control panel for up to a maximum of four pilot devices. Control panel to be removable by loosening two semi-captive fasteners for customer access.

2.12 QUALITY CONTROL
   A. The entire MCC shall go through a quality inspection before shipment. This inspection will include:
      1. Physical Inspection of:
         a. Structure.
         b. Electrical conductors, including:
            1) Bussing.
            2) General wiring.
            3) Units.
      2. Electrical Tests
         a. General electrical tests include:
            1) Power circuit phasing.
            2) Control circuit wiring.
            3) Instrument transformers.
            4) Meters.
            5) Ground fault system.
            6) Device electrical operation.
         b. AC dielectric tests shall be performed on the power circuit.
      3. Markings/Labels, include:
         a. instructional type.
         b. Underwriters Laboratory (UL)/Canadian Standards Association (CSA).
         c. inspector's stamps.
      4. The manufacturer shall use integral quality control checks throughout the manufacturing process to ensure that the MCC meets operating specifications.
Qty | Product Description
--- | ---
1 | **Designation**: MCC  
**Product Details**:  
1- MCC - Industrial Package

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System Voltage: 208Y/120V 3PH 4W 60Hz  
Max Available Fault Current (RMS) - 65kA  
Control Power - 120Vac  
General Purpose Type 1 Enclosure  
1/4" x 1" Horizontal Ground Bus, Tin Plated Copper  
Class 1 Type B Wiring  
20" Deep Construction  
65kA Bus Withstand Rating  
600A Tin Plated Copper Horizontal Bus  
Vertical Ground Bus, Tin Plated Copper  
White Interior  
No Neutral Bus Provided (Neutral connection at Main)  
Standard Exterior Paint ANSI 49  
Equipment Mounting Height 72"  
Manual Vertical Bus Shutters  
Unit Nameplate Engraved with Gray Surface / White Letters  
Rodent Barriers  
Engineered To Order (ETO)  
6 - Section(s) with 300A Tin Plated Copper Vertical Bus

**DIMENSIONS AND WEIGHT**

---
Dimensions: 120.00"W X 20"D X 94.5"H  
Approximate Weight: 4500.00 lbs / 2041.20 kgs

**INCOMING**

---
Incoming Connection: Cable

**MAIN**

---
Main Lugs Top Entry 600A  
Neutral Lug Termination

**FULL VOLTAGE NON-REVERSING STARTERS**

---
6 - 3/4 HP NEMA Size 1 FVNR  
Starter w/Circuit Breaker  
Motor Circuit Protector  
8 - 1/2 HP NEMA Size 1 FVNR  
Starter w/Circuit Breaker  
Motor Circuit Protector  
14 - 1 HP NEMA Size 1 FVNR  
Starter w/Circuit Breaker  
Motor Circuit Protector  
11 - 3 HP NEMA Size 1 FVNR  
Starter w/Circuit Breaker  
Motor Circuit Protector  
3 - 15 HP NEMA Size 3 FVNR Starter w/Circuit Breaker  
Electronic Motor Circuit Protector  
65kA Interrupting Rating  
2 - 10 HP NEMA Size 2 FVNR Starter w/Circuit Breaker  
Electronic Motor Circuit Protector  
65kA Interrupting Rating  
10 - 1.5 HP NEMA Size 1 FVNR  
Starter w/Circuit Breaker  
Motor Circuit Protector  
1 - 1/3 HP NEMA Size 1 FVNR
Starter w/Circuit Breaker
Motor Circuit Protector
5 - 1/4 HP NEMA Size 1 FVNR
Starter w/Circuit Breaker
Motor Circuit Protector

COMMON FULL VOLTAGE NON-REVERSING FEATURES
---------------------------------
Melting Alloy Overload Relay
#16 AWG MTW Control Wire
SPDT Oper. Mech. Interlock
Hand-Off-Auto Selector Switch
Motor On Pilot Light Green
22mm XB5 Pilot Devices
Fishtape Unit Plugs
Motor OFF Pilot Light Red
Phase To Neutral Control - 1 Fuse

FEEDERS
---------------------------------
1 - Circuit Breaker Branch Feeder
   200A
   65kA Interrupting Rating
   Fishtape Unit Plugs

MISCELLANEOUS DEVICES
---------------------------------
1 - 3" Configured Space
1 - 6" Configured Space
GENERAL NOTES
Class 1 Type B Wiring

PRODUCT DESCRIPTION AND RATINGS

POWER SYSTEM DATA:
208Y/120V 3PH 4W 60Hz
SHORT CIRCUIT RATING: 85kA
POWER ENTERS: Main Lug Top Section 4
CONTROL POWER: 120Vac

BUS SYSTEM DATA:
MAIN HORIZONTAL BUS: 600 Amp Copper/Tin Plated / 1.5"
BUS BRACING: 65kA
VERTICAL BUS: 300 Amp Tin Plated Copper
HORIZONTAL GROUND BUS: .25" X 1.0" (6.35mm X 25.4mm) Tin Plated Copper
Units Securely Grounded To Structure

ENCLOSURE DATA:
ENCLOSURE TYPE: 20" DEEP Type 1
EXTERIOR COLOR: Electrodeposition Finish ANSI 49 Medium Light Grey
INTERIOR COLOR: Electrodeposition Finish White
REMOVABLE 3" [76mm] LIFTING ANGLE

STRUCTURE MODIFICATIONS:
Ground Bus Lug : Main Section
Rodent Barriers 1,6
Manual Bus Shutter 1,2,3,4,5,6
Fixtape Unit Plugs 1,2,3,4,5,6
Copper Vertical Ground Bus 1,2,3,4,5,6

EQUIPMENT WEIGHT:
SHIPPING SPLIT # 1: 1500.00 Lbs. (680.40 Kg.)
SHIPPING SPLIT # 2: 750.00 Lbs. (340.20 Kg.)
SHIPPING SPLIT # 3: 2250.00 Lbs. (1020.00 Kg.)
TOTAL LINEUP WEIGHT (APPROX): 4500.00 Lbs. (2041.20 Kg.)

PRODUCT ACCESSORIES:
See Unit Features
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**ADDITIONAL INFORMATION**

- **616 AMP CONTROL WIRE**
- **200 SYSTEM**
- **PERFORMANCE UNIT PLUG**
- **MELTED ALLOY O/L**

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**NOTES**

- **22 mm **
- **SS / PB**
- **ELEMENTARY #**

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**ADDITIONAL INFORMATION**

- **616 AMP CONTROL WIRE**
- **200 SYSTEM**
- **PERFORMANCE UNIT PLUG**
- **MELTED ALLOY O/L**

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**NOTES**

- **22 mm **
- **SS / PB**
- **ELEMENTARY #**
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Appendix A

THE UNIVERSITY OF SOUTHERN MISSISSIPPI
Wilber Hall MDP and Motor Control Center
Request for Bid (BID) #19-24
Signature Page

Provide information requested, affix signature, and return this page with your proposal:

NAME OF FIRM: __________________________________________________________

COMPLETE ADDRESS: ______________________________________________________

________________________________________________________________________

TELEPHONE NUMBER: ______________________________________________________

AREA CODE/NUMBER

FACSIMILE NUMBER: ______________________________________________________

AREA CODE/NUMBER

E-MAIL ADDRESS: _________________________________________________________

AUTHORIZED SIGNATURE: _________________________________________________

PRINTED NAME: _________________________________________________________

TITLE: _________________________________________________________________
Appendix B

THE UNIVERSITY OF SOUTHERN MISSISSIPPI
PROCUREMENT SERVICES
118 COLLEGE DRIVE #5003
HATTIESBURG, MS 39406-0001

GENERAL TERMS, CONDITIONS AND INSTRUCTIONS FOR BIDS/PROPOSALS

1.) Failure to examine any drawings, specifications, and instructions will be at bidder’s risk.

2.) Samples of items when called for must be furnished free of expense and if not destroyed in testing, will, upon request, be returned at the bidder’s expense. Request for the return of samples must be made within ten (10) days following opening bids. Each individual sample must be labeled with bidder’s name and manufacturer’s brand name and number.

3.) Bids must be signed and sealed with bidder’s name and address on the outside of the envelope, and the time and date of the bid opening and the bid file number shown in the lower-left corner of the packages; envelopes, express mailing labels, boxes, etc.

4.) In order for your bid to be considered, it must be received and time stamped in our office by 2:00 P.M. of the bid opening date. It is the responsibility of the vendor to ensure their bid is received within the appointed time. If your bid package is not received in Bond Hall, Room 214, by 2:00 P.M. of the bid opening date, it will not be considered.

If you are delivering your bid, you need to hand carry the bid package to:

The University of Southern Mississippi
Procurement Services
Bond Hall, Room 214
Hattiesburg, Mississippi

If you are mailing your bid package via U.S. Postal Service, mail to:

The University of Southern Mississippi
Procurement Services
118 College Drive #5003
Hattiesburg, MS 39406-0001

If you are express mailing your bid package via Federal Express or UPS, or any other delivery service which requires the use of a physical address, deliver to:
5.) Bids or proposals shall not be modified, corrected, altered, or amended after the specified closing time and the opening of such bids, unless otherwise noted in the request for bids or proposals.

6.) The University of Southern Mississippi reserves the right to reject any and all bids, to waive any informality in bids, and unless otherwise specified by the bidders, to accept any items on the bid. If the bidder fails to state the time within which bids must be accepted, it is understood and agreed that The University of Southern Mississippi shall have 60 days to accept. The University of Southern Mississippi reserves the right to make an award to this bid on an all or none basis, or on a line by line basis, whichever serves the best interest of The University of Southern Mississippi.

7.) Contracts and purchases will be made or entered into with the lowest, responsible bidder meeting specifications.

8.) A written purchase order or contract award mailed or otherwise furnished to the successful bidder within the time of acceptance specified in the Invitation for Bid results in a binding contract without further action by either party. The contract shall not be assignable by the vendor in whole or in part without the written consent of The University of Southern Mississippi.

9.) Bid files may be examined during normal working hours by bid participants. Non-participants will be prohibited from obtaining any information relative to the bid until the official award has been made.

10.) If purchase orders or contracts are canceled because of the awarded vendor’s failure to perform or request for price increase, that vendor shall be removed from our bidders’ list for a period of 24 months.

11.) No addendum will be issued within a period of two (2) working days prior to the time and date set for the bid opening. Should it become necessary to issue an addendum within the two-day period prior to the bid opening, the bid date will be reset giving bidders ample time to answer the addendum.

12.) Alternate bids, unless specifically requested or allowed, will not be considered.

13.) Bid openings will be conducted open to the public. However, they will serve only to open the bids. No discussion will be entered into with any vendor as to the quality or provisions of the specifications, and no award will be made either stated or implied at
the bid opening. After the close of the bid opening meeting, the bids will be considered to be in the evaluation process and will not be available for review by bidders. Proposal openings are not required to be open to the public; however, the resulting award is open for public inspection.

14.) Prices quoted shall be firm for the term of the contract or for the stated time of acceptance.

15.) The bidder understands that The University of Southern Mississippi is an equal opportunity employer and, therefore, maintains a policy which prohibits unlawful discrimination based on race, color, creed, sex, age, national origin, physical handicap, disability, or any other such discrimination; and the bidder, by signing this bid, agrees during the term of agreement that the bidder will strictly adhere to this policy in its employment practices and provision of products or services.

16.) Bidders must upon request of The University of Southern Mississippi furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. The University of Southern Mississippi reserves the right to make the final determination as to the bidder’s ability.

17.) Questions or problems arising from bid procedures should be directed to the Buyer listed on the solicitation at:

   The University of Southern Mississippi
   118 College Drive #5003
   Hattiesburg, MS 39406-0001
   Phone: (601) 266-4131

18.) All items must equal or exceed the specifications listed. The absence of detail specifications or the omission of detail description shall be recognized as meaning that only the best commercial practices are to prevail and that only first quality materials and workmanship are to be used.

19.) It is the intent of the specifications to obtain a product that will adequately meet the needs of the user while promoting the greatest extent of competition that is practicable. It is the responsibility of the prospective bidder to review the entire Invitation to Bid packet and to notify The University of Southern Mississippi if the Specifications, Instructions, General, or Special Conditions are formulated in a manner which would unnecessarily restrict competition.

20.) It shall be incumbent upon the bidders to understand the specifications. Any requests for clarifications shall be in writing and shall be submitted to our Procurement Services office at least five (5) days prior to the time and date set for the bid opening, unless otherwise noted in the bid or proposal specifications.
21.) The minimum specifications are used to set a standard and in no case are used with the intention to discriminate against any manufacturer. Bidders should note the name and the manufacturer and model number of the product they propose to furnish and submit descriptive literature.

22.) Trade names, brand names, and/or manufacturer’s information used in these specifications are for the purpose of establishing quality, unless otherwise noted. Bids on products of other qualified manufacturers are acceptable, provided they are demonstrated as equal to those specified in construction, design and suitability. Each bidder shall submit with his bid a complete brochure with pictures on each item and shall point out specifically any deviations from the specified items. Failure to do so may disqualify any bid. Please bid as specified or an approved equal.

23.) A copy of the manufacturer’s standard guarantee/warranty shall accompany and become a part of this bid.

24.) There are no federal or state laws that prohibit bidders from submitting a bid lower than a price or bid given to the U.S. Government. Bidders may bid lower than U.S. Government contract price without any liability as The University of Southern Mississippi is exempt from the provisions of the Robinson-Patman Act and other related laws. In addition, the U.S. Government has no provisions in any of its purchasing arrangements with bidders whereby a lower price to The University of Southern Mississippi must automatically be given to the U.S. Government.

25.) All invoices, unless noted otherwise, are to be billed to:

The University of Southern Mississippi
Accounts Payable
118 College Drive #5104
Hattiesburg, MS 39406-0001

26.) All equipment bid shall be of current production and of the latest design and construction.

27.) Where all, or part(s), of the bid is requested on a unit price basis, both the unit prices and the extension of the unit prices constitute a basis of determining the lowest responsible and responsive bidder. In cases of error in the extension of price, the unit price will govern.

28.) Should the University of Southern Mississippi close due to inclement weather conditions, or any other unforeseen events on the bid opening date, sealed bids will open the following business day at the same time and location.
29.) As an alternative to traditional sealed bids in envelopes, the University of Southern Mississippi is capable of receiving electronic bid responses. While this option is available, it is not required and we ask that all potential respondents keep in mind that with any electronic system there could be delays or glitches with the submission process; therefore the University highly encourages traditional sealed bids which are either mailed or submitted in person. Should a vendor choose to submit their response electronically, please follow the instructions below using the following website: https://www.ms.gov/dfa/contract_bid_search/Home/Sell. On this site you will find helpful links to procurement opportunities, as well as a link to supplier registration. If not already registered in this system, potential bidders will first need to click on ‘Supplier Registration’ and follow the steps outlined (a one-time process). Once registered, they can return to the original website and click on ‘Procurement Opportunities’ where they can either search by keyword for the bid they desire to respond to or leave the search box blank and click ‘Search’ for a listing of all current bids and proposals for the various State of Mississippi offices.

With regard to electronically submitted construction bids, there is one additional step required during the bid submission process. Along with the bid response and other attachments, contractors will also need to attach their Certificate of Responsibility (COR), or a statement that the bid enclosed does not exceed Fifty Thousand Dollars ($50,000.00). If their COR or such statement is not attached, the bid will be invalid and not considered.

AA/EOE/ADAII