

# INVITATION TO BID

State of Ohio  
Department of Administrative Services  
General Services Division  
Office of Procurement Services

The original signed bid must be submitted to the Office of Procurement Services to receive consideration for award.		BIDDER NAME	
BID NUMBER <b>0B100214</b>	OPENING DATE (1:00 p.m.) <b>OCTOBER 16, 2013</b>	STREET ADDRESS <input type="checkbox"/> Check if remit address is different and list on separate sheet	
General Services Division Office of Procurement Services 4200 Surface Road Columbus, OH 43228-1395  Attn: Bid Desk		CITY STATE ZIP	
		COUNTY	MBE/EDGE CERTIFICATION NUMBER
		TELEPHONE NO. ( )	TOLL FREE NO. 1 - ( )
		CONTACT PERSON	FAX NO. ( )
REQ./INDEX NO. N/A	BID NOTICE DATE 09/24/13	CONTRACTOR'S E-MAIL ADDRESS	
SELECT YOUR PREFERRED METHOD OF RECEIVING PURCHASE ORDERS AND ENTER THE E-MAIL OR FAX NUMBER INFORMATION (ONLY SELECT ONE METHOD) <input type="checkbox"/> E-Mail <input type="checkbox"/> Fax			
In addition to the standard terms for payment, the payment terms for state agency(ies) will be 2%, 10 Days, Net 30 Days unless otherwise stated in the following space. If no discount is offered, bidder should circle "Net 30 Days". _____%, _____ Days, Net 30 Days			
BILL TO: Ohio Department of Natural Resources Division of Parks and Recreation 2045 Morse Road Columbus, OH 43229-6693		SHIP TO: Multiple, see "SHIP TO LOCATIONS" on page 4	
DELIVERY REQUESTED F.O.B./DEST. P.P.D. <u>ASAP</u>		DELIVERY OFFERED (IF DIFFERENT) F.O.B./DEST.P.P.D. _____	
<b>ADDENDUM FOR CHANGE</b> <b>ADDENDUM NO: 1</b> <b>REVISION DATE: 10/03/13</b>			
THE DEPARTMENT OF ADMINISTRATIVE SERVICES, OFFICE OF PROCUREMENT SERVICES IS SOLICITING BIDS FOR:  <b>DREDGE, TWO (2), TRANSPORTABLE, COMBINATION; CONVENTIONAL SWING AND SWING LADDER</b>			
Attached are pages 5 and 6 to this Invitation to Bid. Remove the corresponding pages from the existing bid and replace with the attached.			
As indicated herein, this addendum is issued to modify specification #22. The minimum width for the Swing Ladder Mode has been modified to 30'-35'.			

DATA SHEET: Shown below are the specification requirements for equipment that the State desires to purchase. These specifications shall only be considered as necessary to establish functional requirements. Proprietary design, exact dimensions, capacities, or restrictive features shall not preclude acceptance of other recognized alternates meeting comparable performance requirements as determined by the administrator of State Purchasing. Bidder signifies compliance or non-compliance with specifications by checking yes or no on the left side of the form and returning it with the State Purchasing copy of the bid. List all deviations from specifications on page 9 of this ITB. Failure to comply may disqualify your bid.

SPECIFICATIONS FOR DREDGE

YES	NO	BASIC DESCRIPTION
_____	_____	1. Overall length – 75’ maximum.
_____	_____	2. Overall width (including side tanks) – 23’, minimum, 24’ maximum.
_____	_____	3. Hull depth 4’ minimum.
_____	_____	4. Mean draft (loaded with fuel) 24” maximum.
_____	_____	5. All sections must have watertight manhole access.
_____	_____	6. Built in ballast tanks.
_____	_____	7. Fuel tank(s) 1000 gallon total capacity minimum.
_____	_____	8. Two (2) deck cleats per side tank. Any and all side tanks should include two (2) deck cleats.
_____	_____	9. Four (4) lifting lugs per section located to allow for balanced lift of sections.
_____	_____	10. Four (4) lifting lugs on center hull section located to allow for balanced lift of hull.
 <b>HOISTING</b>		
_____	_____	11. Three (3) Spuds 37’ each, square, 12” x 12”. Two (2) spuds to be located in the front and one (1) in the rear.
_____	_____	12. Spud winch system: power up/power down configuration.
_____	_____	13. Spud length to be commensurate with 20’ digging depth.
_____	_____	14. At upright position, spud cannot extend more than 6” below the bottom of the hull.
_____	_____	15. Wire rope size: ½”.
_____	_____	16. Swing Winches: (2) .
_____	_____	17. Line speed: 60 ft/min.
_____	_____	18. List the Drum capacity: _____ feet
_____	_____	19. Ladder Lift: by means of hydraulic cylinder.
 <b>OPERATING CONDITIONS.</b>		
_____	_____	20. Minimum Digging depth: 3’ or lower. Any minimum depth greater than 3’ is not acceptable.
_____	_____	21. Maximum Digging depth: 20’ or higher. Any maximum depth less than 20’ is not acceptable.
_____	_____	*22. Swing Ladder Mode: minimum width 30’ – 35’
_____	_____	23. Conventional Mode: minimum width – 100’
 <b>CUTTER SYSTEM</b>		
_____	_____	24. Cutting force: 5,180 lb minimum.
_____	_____	25. Operating torque 94,538 in lb.
_____	_____	26. Cutting force per linear inch: 258 lb/inch.
_____	_____	27. Cutter diameter: 31 ½” ID x 5 blade basket with 3” teeth (measured after holder)
_____	_____	28. Cutter system will have replaceable teeth with welded holders. Specify number of teeth: _____
_____	_____	29. Shaft diameter: 3”.
_____	_____	30. Cutter rating: 60HP.
_____	_____	31. Cutter speed variable 0-40 RPM.
 <b>DREDGE PUMP</b>		
_____	_____	32. Suction pipe: 12” I.D. w/3/8” wall thickness.
_____	_____	33. Discharge pipe: 12” I.D. w/3/8” wall thickness.
_____	_____	34. Pump case: hard iron.
_____	_____	35. Approximate particle clearance – 6 inch minimum
_____	_____	36. Impeller diameter 32” thread mounted 3 blade (bolt in thread insert not acceptable).
_____	_____	37. Dual lip, grease purged shaft seals.

\*Indicates change to spec #22.

- | YES | NO  | DREDGE PUMP (Cont'd)  |
|-----|-----|---|
| ___ | ___ | *38. Packed stuffing box with replaceable stainless steel shaft sleeve.   |
| ___ | ___ | *39. In-line marine transmission for single lever throttle/clutch operation. Pump must be engaged and disengaged from lever room.   |
| ___ | ___ | *40. Nominal head: 230 feet H <sub>2</sub> O.   |
| ___ | ___ | 41. Nominal flow: 4,250 GPM.  |
| ___ | ___ | 42. Dredge pump must be designed and built to insure balanced overall dredge design with commercially available, not proprietary, spare parts.  |
| ___ | ___ | 43. Pump as installed must be self-priming with shaft centerline at or slightly below waterline. Any prime assist valves must be solenoid actuated and operable from lever room.  |
| ___ | ___ | 44. Pump must be direct drive through gear reduction, belt drive not acceptable.  |
| ___ | ___ | 45. Flanged suction cleanout with gasketed cover provided in pump. Lifting mechanism directly about pump clean out cover must be provided. Cover will be constructed of aluminum or acceptable lightweight material. Specify material is aluminum will not be used: _____ |
| ___ | ___ | 46. Pump must be completely serviceable without removing from dredge.   |
| ___ | ___ | 47. Removable access cover panel provided in roof above pump. (Engine/pump room roof panel should be manufactured in two equal pieces which will allow access).   |
| ___ | ___ | 48. Jib boom for pump service located on center hull. Jib boom must be capable of removing roof access panels and impeller.   |

#### DREDGE PUMP REDUCTION

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|-----|-----|---|
| ___ | ___ | 49. Inline direct drive, marine gear type. Reduction provided with torsional coupling and elastomer coupling. |
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#### DIESEL ENGINE

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|-----|-----|---|
| ___ | ___ | 50. Engine model: Caterpillar C15 ACERT or equivalent.  |
| ___ | ___ | 51. Rated Horsepower: 540 HP minimum.   |
| ___ | ___ | 52. Must include all recommended manufacturer system i.e. fuel, air. Coolant filters, 60amp alternator, gauges, etc. Must meet all EPA emissions guidelines for marine engines. |
| ___ | ___ | 53. Must be biodiesel compatible.   |

#### CONTROL SYSTEM

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|-----|-----|--|
| ___ | ___ | 54. Expandable programmable logic center controller (PLC) to facilitate dredge operation, alarms, logging data and other custom settings. On board diagnostics and set up screens to provide quick trouble shooting and other custom operating parameters. |
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#### HYDRAULIC SYSTEM

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|-----|-----|---|
| ___ | ___ | 55. Independent electro proportional circuits allowing simultaneous cutter, swing and ladder operation. |
| ___ | ___ | 56. All circuits protected by suction strainer, return filters and relief valves.                       |
| ___ | ___ | 57. System to include all pumps, hose, fittings, valves, etc.   |
| ___ | ___ | 58. Must be compatible with and supplied with biodegradable hydraulic oil. Specify oil brand: _____     |
| ___ | ___ | 59. Electric over hydraulic control levers to provide quiet, low heat operation.                        |
| ___ | ___ | 60. Hydraulic lines within lever room prohibited.   |
| ___ | ___ | 61. All fittings must be Tefloned or sealed. No steel line over 36" without union is acceptable.        |

#### ELECTRICAL

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|-----|-----|---|
| ___ | ___ | 62. All electrical and hydraulic connections are to be outfitted with quick disconnect.           |
| ___ | ___ | 63. Minimum 10KVA generated electric AC power capable of providing 15 amps continuous output.     |
| ___ | ___ | 64. 24 VDC for starting, lighting, and controls.  |
| ___ | ___ | 65. 12 VDC for convenience and user furnished radios and equipment.                               |
| ___ | ___ | 66. All circuits fused for protection.  |
| ___ | ___ | 67. Two (2) 1000 cold cranking amp batteries.   |
| ___ | ___ | 68. Two (2) LED floodlights forward and two (2) LED floodlights aft for night operations minimum. |
| ___ | ___ | 69. One dome light mounted in lever room.   |
| ___ | ___ | 70. Four lights in pump/engine room minimum.  |

\*Items 38-40 were moved from page 5 to page 6.