

# 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 <u>0B100717</u>	OPENING DATE (1:00 p.m.) <u>November 9, 2016</u>	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. 33666	BID NOTICE DATE 10/25/16	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 2045 Morse Rd. Bldg. C-3 Columbus, OH 43229		SHIP TO: Indian Lake 11252 North State Rt. 235 Lakeview, OH 43331-9114	
DELIVERY REQUESTED F.O.B./DEST. P.P.D. <u>07/31/17</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: 11/01/2016</b>			
<u>THE DEPARTMENT OF ADMINISTRATIVE SERVICES, OFFICE OF PROCUREMENT SERVICES IS SOLICITING BIDS FOR:</u>  <b>Dredge, Transportable, Swinging Ladder</b>			
Attached are pages 5 thru 8 to this Invitation to Bid. Remove the corresponding page from the existing bid and replace with the attached.			
As indicated herein, this addendum is issued to revise the minimum requirements for line numbers 11-13, 16, 31, and 52.			

SPECIFICATIONS FOR DREDGE, TRANSPORTABLE, SWINGING LADDER

**DATA SHEET:** Shown below are the specifications requirements for a Dredge, Transportable, Swinging Ladder 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 the Office of Procurement Services. Bidder signifies compliance or non-compliance with specifications by checking Yes or No on the middle of the form. Bidder must also note any deviations from the specifications submitted. Failure to comply may deem the bidder not responsive.

SPECIFICATIONS CONT'D

Line No.	Standard Specification Items	Minimum Requirements	Y/N	EXCEPTIONS:
1	Overall Length	60 Ft. minimum, 70 Ft. Maximum		
2	Overall Width (including side tanks)	17.5' Minimum, 18.5' Maximum		
3	Hull Depth	4 ft.		
4	Mean Draft (loaded with Fuel)	30" maximum		
5	Watertight manhole access	Required (All Sections)		
6	Ballast Tanks	Built in Ballast Tanks.		
7	Fuel Tank(s)	800 Gallon Minimum, 1000 Gallon Maximum		
8	Deck Cleats per Side Tank	Any and all side tanks need to include two (2) Deck Cleats.		
9	Lifting Lugs	Four (4) lifting lugs per section located to allow for balance lift of section.		
10	Lifting Lugs	Four (4) lifting lugs on center hull to allow for balance lift of section.		
Line No.	Hoisting:	Minimum Requirements	Y/N	EXCEPTIONS:
11	Spuds	*Three square spuds to support 20' digging depth and sturdy enough to hold machine in rough condition. Two (2) Spuds front one (1) in the Rear.		
12	Front Spuds	*Must Have Slide collars with a pin system or a clutch system to allow winches to free wheel in rough condition and lake level influx.		
13	Spud Winch System	*Winches must be power up and down configuration when clutch or collar are in pinned position.		
14	Spud Length	To be commensurate with 20' digging depth.		
15	Spuds Position	When spuds are in an upright position they cannot extend more than 6" below the bottom of the dredge.		
16	Wire Rope	*Must be of adequate size and strength for spud weight and sticky working conditions.		
17	Ladder Lift	By means of hydraulic cylinder.		

\*Indicates revision to minimum requirements for line number 11, 12, 13 and 16.

SPECIFICATIONS CONT'D

Line No.	Operating Conditions:	Minimum Requirements	Y/N	EXCEPTIONS:
18	Digging depth Minimum	3' or lower. Any minimum depth greater than 3' is not acceptable.		
19	Digging depth Maximum	20' or lower. Any minimum depth less than 20' is not acceptable.		
20	Swinging Ladder	Minimum width 26' to 35' swing range.		
Line No.	Cutter System:	Minimum Requirements	Y/N	EXCEPTIONS:
21	Cutter Force	5,180 lb. minimum		
22	Operating Torque	94,538 in lbs.		
23	Cutter Force per linear inch:	258lb/inch		
24	Cutter Diameter	31.5" ID X 5 blade basket		
25	Cutter - Replaceable Serrated Teeth	Required.		
26	Shaft Diameter	3"		
27	Cutter Ratio	60 HP		
28	Cutter - Speed Variable 0-40 RPM	Must meet 40 RPM Dredge Pump.		
Line No.	Dredge Pump:	Minimum Requirements	Y/N	EXCEPTIONS:
29	Suction Pipe	12" ID with 3/8" wall thickness		
30	Discharge Pipe	12" ID with 3/8" wall thickness		
31	Pump Case	*Hard iron. Metso 32" Impeller (This pump is required).		
32	Approximate Particle Clearance	6" minimum		
33	Impeller Diameter	32" thread mounted 3 blade (bolt in thread insert not acceptable.)		
34	Dual Lip	Purge shaft seal		

\*Indicates revision to minimum requirements for line number 31.

SPECIFICATIONS CONT'D

Line No.	Dredge Pump (Cont'd):	Minimum Requirements	Y/N	EXCEPTIONS:
35	Packed Stuffing Box	With replaceable stainless steel shaft sleeve.		
36	In-Line Marine Transmission	For a single lever throttle/clutch operation. Pump must be engaged and disengaged from the lever room. (RPM must be under 750 RPM to engage and disengage).		
37	Nominal Head	230 feet H2O		
38	Nominal Flow	4,250 GPM		
39	Dredge Pump Design	Designed and built to insure balance. Spare parts must be commercially available not Proprietary.		
40	Pump priming	Pump Must be self-priming with shaft centerline at or slightly below waterline. Any assist valves must be solenoid actuated and operable from lever room.		
41	Pump Drive	Pump must be direct drive through gear reduction. Belt drive is not acceptable.		
42	Flanged Suction Cleanout	Must be provided with gasket cover. Lifting mechanism directly above pump cleanout cover (constructed of aluminum) must also be provided.		
43	Service	Pump must be completely serviceable without removing from the dredge.		
44	Removable access cover panel	Removable access cover panel must be provided in roof above pump. (Engine/pump room roof panel should be manufactured in two equal pieces which allow access).		
45	Jib Boom	Jib Boom for pump service needs to be located on side tank. Jib Boom must be capable of removing roof access panels an impeller. Jib Boom must be able to reach beyond side tank edge.		
Line No.	Dredge Pump Reduction:	Minimum Requirements	Y/N	EXCEPTIONS:
46	Inline Direct Drive, Marine Gear Type	Reduction provided with torsional coupling and elastomer coupling.		
Line No.	Diesel Engine:	Minimum Requirements	Y/N	EXCEPTIONS:
47	Engine Model	*C-15 marine grade engine.		
48	Horsepower	*C-15 turned up to 540 HP Minimum.		
49	Emergency Stop	Must be equipped with an emergency stop button on the control room and the engine room (reverse switch) pull out to shut the system down.		

\*Indicates revision to minimum requirements for line number 47 and 48.

SPECIFICATIONS CONT'D

Line No.	Diesel Engine (Cont'd):	Minimum Requirements	Y/N	EXCEPTIONS:
50	Recommended Manufacturer System	Must include all recommended manufacturer system (i.e. fuel, air, coolant, filter, 100 amp alt, gauges, etc.). Must meet all EPA emissions guidelines for marine engines.		
51	Biodiesel compatible	Required.		
Line No.	Control System:	Minimum Requirements	Y/N	EXCEPTIONS:
52	Required control system	*Caterpillar marine control system for the engine functions in control room. Alarms and gauges in control room for all temps of fluids.		
Line No.	Hydraulic System:	Minimum Requirements	Y/N	EXCEPTIONS:
53	Hydraulic functions	Must work simultaneous.		
54	Hydraulic Controls	Must be manual lever control. Electric over hydraulic is not acceptable. If this cannot be done please explain why.		
55	Hydraulic System Protection	Hydraulic system protected by suction strainer, return filters, and relief valves.		
56	Pumps, Hoses, Fittings, and Valves	Required to be included.		
57	Compatibility (Oil)	Must be compatible with and supplied with Biodegradable hydraulic oil (Golf Green Hydraulic Oil).		
58	Hydraulic Lines in Control Room	Must be protected and minimized.		
59	Fittings	Must be tefloned or sealed. No steel over 36" without union is acceptable.		
Line No.	Electrical:	Minimum Requirements	Y/N	EXCEPTIONS:
60	Electrical and Hydraulic Connections	All electrical and hydraulic connections are to be outfitted with quick disconnects. Hydraulic fittings must have self-sealing closure to prevent loss of fluid during disconnect and keep contaminants out of system.		
61	25 Amp Marine Invertor with Separate Battery Bank	Must be equipped with isolated shut off.		
62	Starting, Lighting and Miscellaneous Controls VDC Requirements	24 VDC		

\*Indicates revision to minimum requirements for line number 52.