

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	OPENING DATE (1:00 p.m.)	STREET ADDRESS <input type="checkbox"/> Check if remit address is different and list on separate sheet	
OT907315	February 13, 2015	CITY STATE ZIP	
General Services Division Office of Procurement Services 4200 Surface Road Columbus, OH 43228-1395 Attn: Bid Desk		COUNTY	MBE/EDGE CERTIFICATE NUMBER
		TELEPHONE NO. ()	TOLL FREE NO. 1 - ()
		CONTACT PERSON	FAX NO. ()
REQ./INDEX NO. DNR014	BID NOTICE DATE January 30, 2015	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			
PARTICIPATING AGENCY(IES): OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISIONS OF PARKS AND RECREATION, WATERCRAFT AND WILDLIFE, FOUNTAIN SQUARE, COLUMBUS, OH 43224			
MINORITY SET-ASIDE BID IN ACCORDANCE WITH ORC CH. 125.081			
THE DEPARTMENT OF ADMINISTRATIVE SERVICES, OFFICE OF PROCUREMENT SERVICES, IS SOLICITING BIDS FOR:			
Buoys			
<u>TERM OF CONTRACT:</u> This Invitation to Bid is to establish a requirements contract to procure the described supplies or services on behalf of the above participating agency(ies). The agency(ies) may place orders against the Contract beginning <u>05/01/15</u> or upon the date when DAS signs the Contract, whichever is later in time. The Contract will expire <u>04/30/18</u> unless DAS terminates the Contract based upon reasons set forth in Article I-C of the Standard Contract Terms and Conditions. No agencies may place purchase orders against the Contract beyond the expiration date unless DAS renews the Contract by amendment. The Contractor may begin performance under the Contract only upon receipt of a valid order from a participating agency.			
<u>INSTRUCTIONS TO BIDDERS AND CONTRACT TERMS AND CONDITIONS</u> , Revised 10/2013, are a part of this Invitation to Bid. Copies may be downloaded by clicking the link above. All prior versions of Instructions to Bidders, Contract Terms and Conditions are null and void.			
By submitting this Invitation to Bid, the Contractor certifies that Contractor has truthfully disclosed the location(s) where all services are to be performed; the location(s) where all applicable State contract data is to be maintained or made available; and the principal location of business for the Contractor and all subcontractors. The Contractor further certifies and acknowledges that Contractor will not change the country of the location(s) where services are performed and will not change the country of the location(s) where data is maintained or made available without prior written consent of the State.			
<u>INQUIRIES:</u> All inquiries should be submitted a minimum of five (5) working days prior to the bid opening date through the Procurement website, www.procure.ohio.gov . Click "Find it Fast," select "Doc/Bid/Schedule#" in Step 1, enter the Bid Number in Step 2, click "Find it Fast." The "Submit Inquiry" button is at the bottom of the Opportunity Detail page. Bidders will not receive a personalized e-mail response to their question, nor will they receive notification when the question is answered. Responses may be viewed by clicking the "View Q & A" button located beneath the "Submit Inquiry" button.			
		AUTHORIZED SIGNATURE (ORIGINAL SIGNATURE ONLY) (Please sign in blue ink)	DATE

The ORIGINAL signed Bid must be submitted to the Office of Procurement Services by 1:00 o'clock p.m., on the above listed opening date to receive consideration for award. It is requested that the Bidder NOT sign their bid in BLACK ink. BIDDER CERTIFIES, by signature affixed to its bid, that the information provided by it in its bid including the certified statements, is accurate and complete. Bidder declares to have read and understood and agrees to be bound by all of the instructions, terms, conditions and specifications of this Invitation to Bid and agrees to fulfill the requirements of any awarded contract at the prices bid.

AMENDMENTS TO CONTRACT TERMS AND CONDITIONS: The following Amendments to the Contract Terms and Conditions do hereby become a part hereof. In the event that an amendment conflicts with the Contract Terms and Conditions, the Amendment will prevail.

MINORITY BUSINESS ENTERPRISE (MBE) SET ASIDE: The State is committed to making more State contracts and opportunities available to minority business enterprises (MBE) certified by the Ohio Department of Administrative Services (DAS) pursuant to Section 123.151 of the Ohio Revised Code and Rule 123:2-15-01 of the Ohio Administrative Code. This solicitation is being issued as a minority set aside contract in accordance Section 125.081 of the Ohio Revised Code. All bidders must be an Ohio certified MBE as of the solicitation due/opening date. For more information regarding Ohio MBE certification requirements, including a list of Ohio certified MBE businesses, please visit the DAS Equal Opportunity Division web site at: <http://das.ohio.gov/Divisions/EqualOpportunity/MBEEDGECertification/tabid/134/default.aspx>.

DELIVERY AND ACCEPTANCE: Supplies will be delivered to the participating agency within thirty (30) days after receipt of order and, in accordance with Article K-5, of the Contract Terms and Conditions. The delivery location will be noted on the purchase order issued by the participating agency. Acceptance (transfer of title) will occur upon the inspection and written confirmation by the ordering agency that the supplies delivered conform to the requirements set forth in the Contract. Unless otherwise provided in the Contract, acceptance shall be conclusive except as regards to latent defects, fraud, or such gross mistakes as amount to fraud. All damaged items received shall be noted on the driver's Bill of Lading, placed back on the truck, and returned to the contractor for prompt replacement. Deliveries shall be accepted from 8:00 a.m. – 11:00 a.m. and 12:30 p.m. – 2:30 p.m., Monday through Friday, excluding state holidays.

SHIPMENT: Supplies are to be shipped F.O.B. destination, freight prepaid, to any point in Ohio designated by the ordering party.

GUARANTEE/WARRANTY: All units delivered must be guaranteed against defects in material and workmanship for a period of one (1) year from the date of delivery. If any defects of any kind occur during the period of the guarantee, the contractor agrees to replace or repair any defective part or replace the item in whole, at no cost to the state.

DESCRIPTIVE LITERATURE: The Bidder should submit descriptive literature of the supplies being offered with the bid response. The literature will be used in the evaluation process to determine the lowest responsive and responsible bidder. If not provided as part of the bid response, the Bidder must provide said literature within five (5) calendar days after request/notification by the Office of State Purchasing to do so. Any references that may appear in the descriptive literature that may alter the terms and conditions and specifications of the bid (i.e. F.O.B. Shipping Point or Prices Subject to Change) will not be part of any contract and will be disregarded by the state of Ohio. Failure of the bidder to furnish descriptive literature either as part of their bid response or within the time specified herein will deem the bidder not responsive.

Bidder should also submit documentation of the following with the bid response. If not provided as part of the bid response, the Bidder must provide said literature within five (5) calendar days after request/notification by the Office of State Purchasing to do so.

1. Information showing that the molded seat units selected at random from stock are frequently tested by a competent laboratory.
2. Identification of anti-static additive used in polymer and concentration used.
3. Data demonstrating that seat unit has been successfully subjected to 100,000 cycles on a suitable testing machine without fasteners becoming loose or the frame breaking.

PRODUCT SAMPLES: The bidder(s) may be required to submit samples of the supplies being offered. The samples will be used in the evaluation process to determine the lowest responsive and responsible bidder. If not included as part of their bid response, the bidder will be required to provide the samples within seven (7) calendar days after notification. Failure to provide the samples within the stated time period will result in the bidder being deemed not responsive. Samples provided are to be an exact duplicate of the product which the bidder intends to provide after the contract award. After receipt, samples will be inspected and assembled to chair frames. If assembly problems arise, bidder will be required to send representatives to assist with the assembly. This service must be provided at no additional cost to the state.

EVALUATION: Bids will be evaluated in accordance with Article I-17 of the "Instructions to Bidders".

CONTRACT AWARD: The contract will be awarded to the lowest responsive and responsible bidder by low lot total. Low lot total will be determined by multiplying the unit cost in the "Price Per Unit if Order Quantity is Less Than Five" Column by the estimated usage listed in the bid and then adding each of the totals together to arrive at a total for all items. Any item shown with a quantity of "unknown" will be evaluated based upon the quantity of one (1). Failure to bid all items may result in the bidder being deemed not responsive.

FIXED-PRICE WITH ECONOMIC ADJUSTMENT: The contract prices(s) will remain firm for the first six (6) months duration of the contract. Thereafter, the Contractor may submit a request to increase their price(s) to be effective thirty (30) calendar days after acceptance by DAS. No price adjustment will be permitted prior to the effective date of the increase received by the Contractor from his suppliers, or on purchase orders that are already being processed, or on purchase orders that have been

filled and are awaiting shipment. If the Contractor receives orders requiring quarterly delivery, the increase will apply to all deliveries made after the effective date of the price increase.

The price increase must be supported by a general price increase in the cost of the finished supplies, due to increases in the cost of raw materials, labor, freight, Workers' Compensation and/or Unemployment Insurance, etc. Detailed documentation, to include a comparison list of the contract items and proposed price increases, must be submitted to support the requested increase. Supportive documentation should include, but is not limited to: copies of the old and the current price lists or similar documents which indicate the original base cost of the product to the Contractor and the corresponding increase, and/or copies of correspondence sent by the Contractor's supplier on the supplier's letterhead, which contain the above price information and explains the source of the increase in such areas as raw materials, freight, fuel or labor, etc.

Should there be a decrease in the cost of the finished product due to a general decline in the market or some other factor, the Contractor is responsible to notify DAS immediately. The price decrease adjustment will be incorporated into the contract and will be effective on all purchase orders issued after the effective date of the decrease. If the price decrease is a temporary decrease, such should be noted on the invoice. In the event that the temporary decrease is revoked, the contract pricing will be returned to the pricing in effect prior to the temporary decrease. For quarterly deliveries, any decrease will be applied to deliveries made after the effective date of the decrease. Failure to comply with this provision will be considered as a default and will be subject to Provision I.C. "Termination/Suspension" and Provision II. of the "Contract Remedies:" of the "Standard Contract Terms and Conditions".

USAGE REPORTS: Every six (6) months the contractor must submit a report (written or on disk) indicating sales generated by this contract. The report shall list usage by customer, by line item, showing the quantities/dollars generated by this contract. The report shall be forwarded to the Office of State Purchasing, 4200 Surface Road, Columbus, OH 43228-1395, Attn: Senthana Mahendrarasa

DISCLOSURE OF SUBCONTRACTORS / JOINT VENTURES (See Instructions to Bidders, Article I-20):

List names of subcontractors who will be performing work under the Contract.

_____	_____
_____	_____
_____	_____

By the signature affixed to Page 1 of this Bid, Bidder hereby certifies that the above information is true and accurate. The Bidder agrees that no changes will be made to this list of subcontractors or locations where work will be performed or data will be stored without prior written approval of DAS. Any attempt by the Bidder/Contractor to change or otherwise alter subcontractors or locations where work will be performed or locations where data will be stored, without prior written approval of DAS, will be deemed as a default. If a default should occur, DAS will seek all legal remedies as set forth in the Terms and Conditions which may include IMMEDIATE cancellation of the Contract. FAILURE TO COMPLETE THIS PAGE MAY DEEM YOUR BID NOT RESPONSIVE.

Notice on the Use of Social Security Numbers as Federal Tax Identification Numbers

The Department of Administrative Services (Department) requires vendors and contractors wishing to do business with the State to provide their Federal Taxpayer Identification Number to the Department. The Department does this so that it can perform statutorily required "responsibility" analyses on those vendors and contractors doing business with the State and, under limited circumstances, for tax reporting purposes. If you are a vendor or contractor using your Social Security Number as your Federal Taxpayer Identification Number, please be aware that the information you submit is a public record, and the Department may be compelled by Ohio law to release Federal Taxpayer Identification Numbers as a public record. If you do not want to have your Social Security Number potentially disclosed as a Federal Taxpayer Identification Number, the Department encourages you to use a separate Employer Identification Number (EIN) obtained from the United States Internal Revenue Service's to serve as your Federal Taxpayer Identification Number.

SPECIFICATIONS

I. SCOPE AND CLASSIFICATION:

A. SCOPE: The Department of Natural Resources (DNR), Divisions of Parks and Recreation, Watercraft and Wildlife require various types of buoys for use throughout the state of Ohio. These products will be used on the lakes, reservoirs, rivers and waterways within the State. These products are delineated into eight (8) categories.

B. CLASSIFICATION:

1. Shallow water can buoy
2. Shallow water can buoy with light
3. Barrier Float
4. Spar Type Buoy
5. Extra heavy duty spar type buoy with pick-up eye
6. Shallow water nun buoy
7. Shallow water nun buoy with lights
8. Standard Inland Waterway emblem and lettering

II. REQUIREMENTS:

A. GENERAL REQUIREMENTS

1. Packaging: Packaging is to consist of wrapping, cushioning materials, containers, markings and related techniques to protect items from deterioration, prevent damage, facilitate handling and to identify the items shipped
2. Partial Shipments: All buoys are to be packaged and shipped in the quantity specified with no partial shipments without prior approval from the ordering agency.

B. ITEM SPECIFICATIONS

1. SHALLOW WATER CAN BUOY

- a. Material: The buoy is to be the float collar can style; manufactured of Acrylonitrile Butadiene Styrene (ABS); filled with closed cell polyurethane foam; shatterproof, unsinkable, ultraviolet inhibited, self-righting.
- b. Construction:
 1. Dimensions:
 - a. Can diameter & height - 14" x 30"
 - b. Float collar diameter & height - 28" x 12"
 - c. Overall height - 49"
 - d. Draft - under 9"
 - e. Ballast - internal
 - c. Foam: Buoy must be filled with closed cell polyurethane foam. There must not be any voids or cavities in the foam itself. No icing of the foam will be permitted. Foam must adhere to the buoy shell.
 - d. Colors: Buoy must be white with standard inland waterway marking symbols of orange symbols and black lettering as specified in H (pages 11-12). Buoys are also to be available in the standard green color.

SPECIFICATIONS (Cont'd.)

- e. Reflective band: Each buoy will have a 3 inch reflective band at the top of the buoy. This will be silver on the white buoys, green on green buoys and red on red buoys.
 - f. Exposed surfaces must not have any sharp or rough edges. All seams are to be solvent welded.
 - g. The outer surface of the ABS buoys, are to be coated with a super marine finish.
 - h. Lettering: All buoys must bear the legend "State of Ohio", must be stenciled, imprinted, or marked in a permanent manner on the horizontal top plane of the buoy base.
 - i. Packaging: Each buoy is to be shipped in an appropriate manner to protect float during transit so that it will not be damaged.
2. SHALLOW WATER CAN BUOY WITH LIGHT
- a. Material: The buoy is to be the float collar can style; manufactured of Acrylonitrile Butadiene Styrene (ABS); filled with closed cell polyurethane foam; shatterproof; unsinkable; ultraviolet inhibited; self-righting.
 - b. The buoy is to be fully assembled and ready for use.
 - c. Construction:
 - 1. Dimensions:
 - a. Can diameter & height - 14" x 30"
 - b. Float collar diameter & height - 28" x 12"
 - c. Overall height - 49"
 - d.. Draft - under 9"
 - e. Ballast - internal
 - d. Buoy must have sealed tube for six 6-volt pin type lantern batteries. Buoy cylinder must have a removable ABS cap with an ABS reinforcing disc .250" thick and top and bottom three 1-21" diameter steel tie rods with reinforcing washers and nuts permanently attached by welding. ABS cylinder wall is to be .120 inch thick.
 - e. Foam: Buoy must be filled with a closed cell polyurethane foam. Foam is to adhere to the inner surface of the float shell and must lock to the interior pipe for the light. There must not be any voids or cavities in the foam itself. No icing of the foam will be permitted.
 - f. Colors: Buoy must be white with standard inland waterway marking symbols of orange symbols and black lettering as specified in H (pages 11-12). Buoys are also to be available in the standard green color.
 - g. Reflective Band: Each buoy will have a 3 inch reflective band at the top of the buoy. This will be silver on the white buoys, green on green buoys and red on red buoys.
 - h. Exposed surfaces must not have any sharp or rough edges. All seams are to be solvent welded.
 - i. The outer surface of the ABS buoys, are to be coated with a super marine finish.
 - j. Lettering: All buoys must bear the legend "State of Ohio", must be stenciled, imprinted, or marked in a permanent manner on the horizontal top plane of the buoy base.

SPECIFICATIONS (Cont'd.)

- k. Buoy Light Requirements:
1. Visibility must be a minimum of one (1) mile for white light.
 2. Green or red lights must have a visibility of 1/2 mile minimum.
 3. Light assembly must have a photo-electric cell assuring that the light is on, only when needed.
 4. Flashing light rate must be 30 flashes per minute or 60 flashes per minute.
 5. Light must be solid state operated.
 6. The light system must have a stand-by bulb that automatically comes on if main bulb fails.
 7. Light units must be corrosion proof.
 8. Lamps must be replaceable without moving unit from buoy.
 9. Lens must be of high impact Polycarbonate with a high gain of (20 to 1 magnification).
 10. Light must be theft resistant by using S.S. tamper resistant bolt and a special wrench must be provided.
 11. Light must be capable of high, medium or low intensity, with medium intensity light having a battery life of about four (4) months.
- l. Packaging: Each buoy is to be shipped in an appropriate manner to protect float during transit so that it will not be damaged.

3. BARRIER FLOATS

- a. Material: Float to be manufactured of one piece high density polyethylene; filled with closed cell polyurethane foam; shatterproof, unsinkable, ultraviolet inhibited.
- b. Construction:
1. Must be completely filled with closed cell polyurethane foam. There must not be any voids or cavities in the foam itself. No icing of the foam will be permitted. One inch galvanized steel pipe through float. Anchored in foam to prevent movement. Foam must also adhere to the buoy shell.
 2. Dimensions:
 - a. Diameter - 18 inches
 - b. Length - 30 inches
- c. Submerged Buoyancy: 200 lbs.
- d. Net Weight: 19 lbs.
- e. Colors: Standard International Orange and White of plain solid color. Three inch reflective bands available in silver or orange, optional.
- f. Exposed surfaces must not have any sharp or rough edges. All seams are to be solvent welded.
- g. Exposed surfaces of the buoy are to be coated with a super marine finish.
- h. Packaging: Each buoy is to be shipped in an appropriate manner to protect float during transit so that it will not be damaged.
- i. Lettering: All floats must bear 2" block letters, black in color. The legend "State of Ohio" must be stenciled, imprinted, or marked in a permanent manner on the horizontal top plane.

SPECIFICATIONS (Cont'd.)

4. SPAR TYPE MARKER BUOY - A.B.S.

- a. Material: Buoy to be manufactured of Acrylonitril Butadiene Styrene (ABS); filled with closed cell polyurethane foam; shatterproof, unsinkable; ultraviolet inhibited, self-righting.
- b. Construction:
 1. Must show white in color and must have the top cap impregnated with International Orange pigment.
 2. Immediately below the cap will be a 3" band of silver retro-reflective tape.
 3. Below this, as an integral part of the buoy, in the same orange color shall be the standard symbols used to conform to the Inland Waterways marking regulations as specified by the Council of State Governments and the U.S. Coast Guard.
 4. Above, below or enclosed in the symbol must be black block letters with the requested word, (to be specified at time order is placed). These must be 3-1/2" to 4" letters.
 5. Two inch bands will be above and below the symbols and black lettering.
- c. Dimensions:
 1. Height - 61"
 2. Diameter - 9"
 3. Height in water - Buoy to show a minimum of 38" above water line when anchored in place.
- d. Foam: Must be completely filled with closed cell polyurethane foam. There must not be any voids or cavities in the foam itself. No icing of the foam will be permitted. Foam must adhere to the buoy shell.
- e. Exposed surfaces must not have any sharp or rough edges. All seams are to be solvent welded.
- f. Ballast: Internal 16 lbs. concrete ballast with 1/2" diameter (1" I.D.) steel galvanized mooring eye.
- g. The outer surface of the ABS buoys, are to be coated with a super marine finish.
- h. Packaging: Each buoy is to be shipped in an appropriate manner to protect buoy during transit so it will not be damaged.
- i. Art: Art work and a sample of International Orange ink to be used on a swatch is to be submitted for approval to the Division of Watercraft.
- j. Legend: The legend "State of Ohio" must be stenciled, imprinted, or marked in a permanent manner on the horizontal top plane.

5. EXTRA HEAVY DUTY SPAR TYPE BUOY WITH PICK-UP EYE

- a. Material: Buoy to be manufactured of HDPE shell, filled with closed cell polyurethane foam, shatterproof, ultraviolet inhibited, unsinkable and self-righting.
- b. Construction:
 1. Snow white in color and must have the top cap impregnated with International Orange pigment.
 2. A hot dipped galvanized pick-up eye will be placed at the top of the buoy in such a manner that it can swivel.
 3. The pick-up eye will be attached to the 3/8" galvanized steel rod running through the center of the buoy.
 4. Immediately below the cap will be a 3" band of silver retro-reflective tape.
 5. Below this, as an integral part of the buoy, in the same orange color shall be the standard symbols used to conform to the Inland Waterways marking regulations as specified by the Council of State Governments and the U.S. Coast Guard.
 6. Above, below or enclosed in the symbol must be black block letters with the requested work, (to be specified at time order is placed). These must be 3-1/2" to 4" letters.
 7. 2" orange bands will be above the lettering and symbols.

SPECIFICATIONS (Cont'd.)

- c. Dimensions:
 - 1. Height - 61"
 - 2. Diameter - 9"
 - 3. Height in water - Buoy to show a minimum of 38" above water line when anchored in place.
 - d. Foam: Buoy is to be completely filled with rigid, closed cell polyurethane foam. There must not be any voids or cavities in the foam itself. No icing of the foam will be permitted. The foam must adhere to the buoy shell itself.
 - e. Exposed surfaces must not have any sharp or rough edges. All seams are to be solvent welded.
 - f. Ballast: Internal 16 lb. concrete ballast with 1/2" diameter (1" I.D.) steel galvanized mooring eye.
 - g. Pick-up Eye
 - h. The outer surface of the HDPE are to be coated with a super marine finish.
 - i. Packaging: Each buoy to be shipped in an appropriate manner to protect buoy during transit so it will not be damaged.
 - j. Art: Art work and a sample of International Orange ink to be used on a swatch to be submitted for approval to the Division of Watercraft.
 - k. Legend: The legend "State of Ohio" must be stenciled, imprinted, or marked in a permanent manner on the horizontal top plane.
6. SHALLOW WATER NUN BUOY
- a. Material: Buoy is to be the float collar nun style; manufactured of Acrylonitrile Butadiene Styrene (ABS); filled with closed cell polyurethane foam; shatterproof, unsinkable, ultraviolet inhibited, self-righting.
 - b. Construction:
 - 1. Dimensions:
 - a. Nun Diameter & Height - 14" x 30"
 - b. Float Collar Diameter & Height - 28" x 12"
 - c. Overall Height - 49"
 - d. Draft - under 9"
 - e. Ballast - internal
 - c. Foam: Buoy is to be completely filled with closed cell polyurethane foam. There must not be any voids or cavities in the foam itself. No icing of the foam will be permitted.
 - d. Colors: Buoys must be white with standard inland waterway marking symbols of orange symbols and black lettering as specified in H (pages 11-12). Buoys will also be the standard red in color.
 - e. Reflective band: Each buoy will have a 3 inch reflective band at the top of the buoy. This will be silver on the white buoys, green on green buoys and red on red buoys.
 - f. Exposed surfaces must not have any sharp or rough edges. All seams are to be solvent welded.
 - g. The outer surface of the ABS buoys, are to be coated with a super marine finish.
 - h. Lettering: All buoys must bear the legend "State of Ohio" must be stenciled, imprinted, or marked in a permanent manner on the horizontal top plane of the buoy base.
 - i. Packaging: Each buoy is to be shipped in an appropriate manner to protect float during transit so it will not be damaged.

SPECIFICATIONS (Cont'd.)

7. SHALLOW WATER NUN BUOY WITH LIGHT

- a. Material: Buoy is to be the float collar can style; manufactured of Acrylonitrile Butadiene Styrene (ABS); filled with closed cell polyurethane foam; shatterproof; unsinkable; ultraviolet inhibited; self-righting.
- b. Construction:
 1. Dimensions:
 - a. Nun Diameter & Height - 14" x 30"
 - b. Float Collar Diameter & Height - 28" x 12'
 - c. Overall Height - 49"
 - d. Draft - under 9"
 - e. Ballast - internal
 - c. Buoy must have sealed tube for six 6-volt pin type lantern batteries. Buoy cylinder must have a removable ABS cap with an ABS reinforcing disc .250" thick and top and bottom three 1-21" diameter steel tie rods with reinforcing washers and nuts permanently attached by welding. ABS cylinder wall shall be .120" thick.
 - d. Foam: Buoy is to be filled with a closed cell polyurethane foam. Foam is to adhere to the inner surface of the float shell and must lock to the interior pipe for the light. There must not be any voids or cavities in the foam itself. No icing of the foam will be permitted.
 - e. Colors: Buoys must be white with standard inland waterway marking symbols of orange symbols and black lettering as specified in H (page 10). Buoys will also be the standard red in color.
 - f. Reflective band: Each buoy will have a 3 inch reflective band at the top of the buoy. This will be silver on the white buoys, green on green buoys and red on red buoys.
 - g. Exposed surfaces must not have any sharp or rough edges. All seams are to be solvent welded.
 - h. The outer surface of the ABS buoys, are to be coated with a super marine finish.
 - i. Lettering: All buoys must bear the legend "State of Ohio" must be stenciled, imprinted, or marked in a permanent manner on the horizontal top plane of the buoy base.
 - j. Buoy Light Requirement:
 1. Visibility must be a minimum of (1) mile for white light.
 2. Green or red lights must have a visibility of 1/2 mile minimum.
 3. Light assembly must have a photo-electric cell assuring that the light shall be on only when needed.
 4. Flashing light rate must be 30 flashes per minute or 60 flashes per minute.
 5. Light must be solid state operated.
 6. The light system must have a stand-by bulb that automatically comes on if main bulb fails.
 7. Light units must be corrosion proof.
 8. Lamps must be replaceable without removing unit from buoy.
 9. Lens must be of high impact Polycarbonate with a high gain of (20 to 1 magnification).
 10. Light must be theft resistant by using S.S. tamper resistant bolt and a special wrench shall be provided.
 11. Light must be capable of high, medium or low intensity, with medium intensity light having a battery life of about four (4) months.
 - k. Packaging: Each buoy is to be shipped in an appropriate manner to protect float during transit so it not be damaged.

SPECIFICATIONS (Cont'd.)

8. SHALLOW INLAND WATERWAY EMBLEM AND LETTERING (VINYL WRAPPER)

- a. The vinyl wrapper must have two sets of symbols and lettering so that when the wrapper is affixed to the buoy each set of symbols and lettering must be 180 degrees apart.
- b. Material
 1. The material shall be a minimum of 4 mil Mactac B L Vinyl. The vinyl must be soft.
 2. The material must be capable of instant and permanent adhesion to Acrylonitrile Butadiene Styrene (ABS) and super tough HDPE shell.
- c. Construction:
 1. The color must be white.
 2. All printing is to be by means of a silk screen process and the ink must be fade resistant and waterproof.
 3. Dimensions:
 - a. Height - 22 1/2"
 - b. Width - The sides of the wrapper shall allow a 1/4" overlap when affixed to the buoy.
- d. Symbols: All symbols must be of proper proportion and clearly distinguishable.
 1. Circle Emblem - The Inside diameter shall be a minimum of 8".
 2. Diamond Shape Enclosing Intersecting Horizontal and Vertical Lines Emblem - The overall height shall not be less than eight (8) inches.
 3. Diamond Shaped Emblem - The overall height must not be less than eight (8) inches.
- e. Lettering:
 1. The color of the letters must be black.
 2. The minimum height of the letters will be 3 1/2".
 3. The maximum height of the letters will be 4".
 4. The lettering must appear above and below the emblem on the vinyl wrapper.
 5. The bottom of the lettering above the emblem must be 1/2" above the emblem.
 6. The top of the lettering below the emblem shall be 1/2" below the emblem.
 7. Lettering may read but is not limited to; "Danger Dam"; "Danger Rock" etc.
- f. Bands:
 1. The bands must have two orange reflective bands.
 2. The bands are to be approximately 2" wide.
 3. One band must be at the top of the wrapper above the lettering above the emblem.
 4. One band must be at the bottom of the wrapper below any lettering that may be below the emblem.
- g. Coating: Each emblem after printing has been placed thereon, is to be clearly acrylic coated.
- h. Adhesive: The adhesive must be permanent, waterproof, and have instant initial tact, without cold flow (edge seepage).
- i. Shipping:
 1. The wrappers must not be shipped in a rolled form.

YOUR BID:

Bidders shall not insert a unit cost more than 3 digits after the decimal point. Digit(s) beyond 3, after the decimal point, shall be dropped by the Office of State Purchasing and not used in the evaluation and any subsequent award.

NOTICE TO BIDDERS

The award evaluation will be made based on the price offered in the column marked with an asterisk (*). Prices quoted in the columns with no asterisk (*) will not be used for the award evaluation; however, those prices will become part of the contract awarded to the successful bidder. To receive consideration for award, bidders must enter pricing in all pricing columns. Failure to enter pricing in all pricing columns will disqualify your bid.

ITEM NUMBER:	Item Description	% Recycled Content of Product	% Recycled Content of Packaging	Est. Quantity	Price Per Unit If Order Quantity Is Less Than 5	Price Per Unit If Order Quantity Is a minimum of 5 But Less Than 20	Price Per Unit If Order Quantity Is a Minimum of 20 But Less than 50	Price Per Unit If Order Quantity Is a Minimum of 50 But Less than 100	Price Per Unit If Order Quantity Is a Minimum of 100
5286	Shallow Water Can Buoy	%	%	10	\$ *	\$	\$	\$	\$
0030	Shallow Water Can Buoy With Light	%	%	1	\$ *	\$	\$	\$	\$
0032	Barrier Float	%	%	1	\$ *	\$	\$	\$	\$
0031	Spar Type Buoy	%	%	1	\$ *	\$	\$	\$	\$
5287	Extra Heavy Duty Spar Type Buoy With Pick-Up Eye	%	%	450	\$ *	\$	\$	\$	\$
0028	Shallow Water Nun Buoy	%	%	5	\$ *	\$	\$	\$	\$
0029	Shallow Water Nun Buoy With Lights Red/Green	%	%	1	\$ *	\$	\$	\$	\$
5288	Shallow Inland Waterway Emblem & Lettering	%	%	1	\$ *	\$	\$	\$	\$

*Used for Evaluation