

# Cherokee Nation

[www.cherokee.org](http://www.cherokee.org)

## REQUEST FOR SEALED BIDS

### SUBMERSIBLE UNMANNED MARITIME VEHICLE FOR CHEROKEE NATION EMERGENCY MANAGEMENT



**Bid Due Date: December 4, 2023**

**CHEROKEE NATION**

P.O. Box 948  
Tahlequah, OK 74465  
(918) 453-5000

**CHEROKEE NATION  
REQUEST FOR SEALED BIDS  
Submersible Unmanned Maritime Vehicle**

The Cherokee Nation is accepting sealed bids from interested parties for a submersible unmanned maritime vehicle for the Cherokee Nation Emergency Management. The specifications are included in this bid packet.

Interested parties are to provide a sealed bid to furnish product equal to or better than the specifications provided. Interested bidders must follow all directions outlined in this bid packet including the utilization of mandatory bid response sheet to be considered fully responsive.

The lowest most responsive, responsible bid will be the determining factor in awarding this bid taking Indian Preference into consideration in accordance with Cherokee Nation Acquisition Management Policy & Procedures. The successful bidder will be issued a purchase order incorporating the bid response.

**Sealed Bids are due December 4, 2023 by 3:00 p.m.**

The Cherokee Nation invites bids on the form attached hereto, all blanks of which must be appropriately filled in. Bids will be received by the NATION at the **Acquisition Management Department until December 4, 2023 at 3:00 p.m.** The envelopes containing the bids must be sealed, addressed to Cherokee Nation, Attn: Pam Jumper, Acquisition Management Department, P.O. Box 948, Tahlequah, Oklahoma, 74465. Bids may also be hand delivered to Cherokee Nation Acquisition Management, Attn: Pam Jumper, 17665 S. Muskogee Avenue, Tahlequah, Oklahoma 74464. **BIDS MUST BE RECEIVED ON OR BEFORE DECEMBER 4, 2023 AT 3:00 P.M. CT TO BE CONSIDERED. BIDS MUST BE SEALED AND CLEARLY MARKED "SEALED BID, DO NOT OPEN, SOLICATION: "SUBMERSIBLE UNMANNED MARITIME VEHICLE". A PUBLIC BID OPENING WILL BE HELD ON DECEMBER 4, 2023 @ 3:00 P.M. IN THE FINANCIAL RESOURCES CONFERENCE ROOM LOCATED IN THE FINANCIAL RESOURCES BUILDING (DIRECTLY BEHIND THE MAIN COMPLEX) 17665 S. MUSKOGEE AVENUE, TAHLEQUAH, OKLAHOMA. AWARD WILL BE BASED ON COST & AVAILABILITY.**

**Interpretation of the Bid Documents:** All questions or requests for interpretation of the bid must be submitted in written format to Cherokee Nation Acquisition Management. Requests maybe e-mailed to [pam-jumper@cherokee.org](mailto:pam-jumper@cherokee.org). Requests may also be faxed to (918) 458-4493 or (918) 458-7695, Attention: **Pam Jumper**.

- a) To be given consideration, questions and interpretation requests must be received no later than **November 22, 2023 by 5:00 p.m.**
- b) Any and all such answers and interpretations and any supplemental instructions will

be in the form of written addenda to the bid which, if issued, will be communicated in written format to all prospective bidders not later via a posting on the NATION'S website, [www.cherokeebids.org](http://www.cherokeebids.org) with bid announcement. Due date for interpretations for this bid shall be **November 28, 2023 by 5:00 p.m.**

- c) No answers or interpretation of the bid documents will be made to any bidder orally.
- d) Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the contract documents.

**Bid Acceptance:** Bids will be accepted from Indian and Non-Indian bidders. Cherokee Nation reserves the right to reject any and all bids. Cherokee Nation reserves the right to determine if a bid meets stated requirements, and to award a purchase order for the bid that is in the best interest of the Cherokee Nation including but not limited to the total cost and capability of the bidder. Bidders are responsible for any and all costs associated with the preparation and submission of bids. To be considered, bids must be received by the specified date and time; any bid received after stipulated date and time will be returned unopened. No bidder may withdraw their bid within 30 days after proposal due date.

**TERO Certification:** Indian preference will be given only to bidders who provide proof of current certification from the Cherokee Nation Tribal Employments Office (TERO) located in Tahlequah, Oklahoma, telephone number (918) 453-5000. Proof of TERO certification must accompany and be included in bid submittal.

**Conflict of Interest and Restrictions:** If any contractor, contractor's employee, subcontractor, or any individual working on the proposed contract may have a possible conflict of interest that may affect the objectivity, analysis, and/or performance of the contract, it shall be declared in writing and submitted to Cherokee Acquisition Management (Attn: Pam Jumper) no later than **December 4, 2023 by 3:00 p.m.** The NATION will determine in writing if the conflict is significant and material and if so, may eliminate the contractor from submitting a proposal.

**Verbal Instructions:** Interested parties shall not initiate or execute any negotiation, decision, or action arising from any verbal discussion with any Cherokee Nation employee. Only written communications from the designated Contact Person at Cherokee Nation may be considered a duly authorized expression on behalf of the NATION regarding this RFP. Additionally, only written communications from interested parties are recognized as duly authorized expressions on behalf of the vendor. The same instructions shall apply to any subsequent award and agreement communications.

**Qualifications of Bidder:** The NATION may make such investigations as deemed necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the NATION all such information and data for this purpose as the NATION may request. The NATION reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the NATION such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted.

**Method of Award – Lowest Bid That Contains Lowest Most Responsive/Reasonable Offer From Qualified Bidder:** After consideration of price and other factors, the purchase order will be awarded to the bidder whose bid is determined to be the lowest most responsive/reasonable offer taking Indian Preference into consideration and in the best interest of the Nation to accept. Award shall be to the lowest, most responsive/reasonable bid in accordance with Cherokee Nation Acquisition Management Policy and Procedures. Indian/TERO Preference will be given only to bidders who provide proof of current TERO certification from the Cherokee Nation Tribal Employments Office (TERO) in accordance with current Cherokee Nation Policy. Proof of TERO certification must accompany and be included in sealed bid submittal.

**Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters:** The responding party certifies to the best of its knowledge and belief that the person, the firm, or any of its principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency or Indian tribe. The bidder will also certify they have not, within a three-year period preceding this Request for Proposal, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, Local or Tribal) contract or subcontract; violation of Federal or State antitrust statutes relating to the submission of offers; or commissions of embezzlement, theft, forgery, bribery, falsifications or destruction of records, making false statements, and are not presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in this provision. The responding party certifies they have not, within a three-year period preceding this Request for Proposal, had one or more contracts terminated for default by a Federal, State, Local or Tribal agency. The responding party shall provide immediate written notice to the Cherokee Nation if, at any time prior to contract award, the person learns its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

**General Information:** Cherokee Nation reserves the right to waive any informalities or to reject any and all bids. Award of purchase order will be to the lowest most responsible responsive bidder and will be subject to availability of funds. All sums due to any suppliers utilized by successful bidders must be paid or will be paid within ten (10) days of receipt of any money received from the Cherokee Nation under any purchase order. Indian preference will be given to Contractors certified as an Indian-Owned firm by the Cherokee Nation Tribal Employment Rights Office (T.E.R.O.). Proof of certification must accompany all bids. No bidder may withdraw their bid within thirty (30) days after bid opening date.

A prospective contractor seeking to receive Indian Preference under this contract must be certified as an Indian-owned firm by the Cherokee Nation Tribal Employment Rights Office (TERO) and submit proof of that certification with their bid.

**MANDATORY BID RESPONSE SHEET**  
**Submersible Unmanned Maritime Vehicle**

<b><u>Product Description</u></b>	<b><u>QTY</u></b>	<b><u>UNIT COST</u></b>	<b><u>TOTAL</u></b>
<b>Submersible Unmanned Maritime Vehicle</b>	<b><u>01</u></b>	_____	_____
<b>TRAINING COST</b>		\$ _____	
<b>DELIVERY CHARGE</b>		\$ _____	
<b>GRAND TOTAL BID</b>		\$ _____	

**LEAD TIME ARO:** \_\_\_\_\_

**ALL SPECIFICATIONS ARE FULLY MET:** \_\_\_\_\_ **YES** \_\_\_\_\_ **NO**

\*\*Cherokee Nation will consider bids for product equal to or better. If not bidding exact product, complete details and specifications for product must be submitted with bid.\*\*

NOTE TO BIDDERS REGARDING INDIAN PREFERENCE:

TERO Certified Contractor: \_\_\_\_\_ Yes \_\_\_\_\_ No  
 (Proof of certification must accompany all bids)

SUBMITTED:

\_\_\_\_\_ Company Name

\_\_\_\_\_ Company Address

\_\_\_\_\_ Authorized Signature

\_\_\_\_\_ Print Name & Title

\_\_\_\_\_ Phone & Fax Numbers

Product Specifications and Requirements  
Provided by: Cherokee Nation Emergency Management

**PRODUCT SPECIFICATIONS AND REQUIREMENTS**

The Cherokee Nation Emergency Management is seeking bids for a Submersible Unmanned Maritime Vehicle. The desired vehicle and information/specifications are provided below; the Nation will accept a vehicle EQUAL TO OR BETTER THAN SPECS PROVIDED.

Cherokee Nation Emergency Management is seeking bids for the following Submersible Unmanned Maritime Vehicle items:

**Expeditionary Splashproof Controller**

**Specifications**

- **Power Input:** 48V DC @ 80 Watts Peak

**Performance**

- **Processor:** 8<sup>th</sup> Generation Intel Core i7-8665U, 8 MB Cache, 4 Core, 1.90 Ghz to 4.80 GHz, or equal to or better
- **RAM:** 16GB or better
- **Drive:** SSD~500 GB or better

**Features**

- Modular quick release side pod controllers.
- Carry handle
- Kick stand
- Neck strap

**Connectors**

- Fisher Ultimate M12
- USB type A

**Standard Controller Configuration**

- (2) 2 axis joystick with center push
- (2) 1 axis joystick
- (6) Momentary buttons
- (2) D-pad (5 momentary push)

## **Size & Weight**

### **Controller**

- 48.26 x 27.9 x 8.89 cm (19 x 11 x 3.5 in)
- 3.40 kg (7.5 lbs out of the case)

### **Controller & Storage Case:**

- 55.8 x 35.5 x 19 cm (21.96 x 13.97 x 7.49 in)
- 7.48 kg (16.5 lbs full in case assembly)

### **Operating Temperature:**

- 20 °C-60 °C (68 °F-140 °F)
- Ingress Protection: IP65 rated or better

## **Buoyancy**

- **Float:** 400 m (1,312 ft)
- 2 km (6,561.68 ft) – optional

## **Operator Control Console (OCC)**

- **Power Input:** 90-260 VAC, (47-440 Hz)
- **Power Output:** 400 VDC. 2600 W
- **Display:** Daylight Viewable Monitor
- **Weight:** 15.2 kgs (33.6 lbs)
- **Case:** Water Tight
  - 0.62 X 16.87 X 8.12 in
- **Processing:** Integrated i7 system processor or equal to or better
- **Controller:** Industrial Programmable Hand Controller
- **Safety:** Integral Line Isolation Monitor Emergency Kill Switch
- **Ports:** 7 external USB ports or equal to or better
- 1 external Ethernet port or equal to or better

## **Communications**

- (5) RS-485 ports
- Power Available: 12 V, 120 W
  - 24 V, 300 W
  - 48 V, 1500 W
- Power control and monitoring

## **Propulsion**

- **Brushless thrusters with integrated controller**
  - 4 Vectored Horizontal Thrusters
    - Forward: 26.7 kg (59 lbs)

- Reverse: 15 kg (33 lbs)
- Lateral: 8.6 kg (19 lbs)
- 3 Vertical Thrusters
  - Up 23.1 kg (50.9 lbs)
  - Down 12.9 kg (28.4 lbs)

## Lighting

- **LED**
  - 2 independent light arrays (38 Watts max ea.)
  - 60' spot beam
  - 110' flood beam
  - Each array can be individually controlled 3,000
  - K CCT, 80 CRI White 7,600 total lumen per LED
  - light module

## IMU

- **9 DOF IMU AND Magnetic Compass**
  - Pressure based depth sensor:
    - 100 Bar, with 400 Bar optional
    - 0.2' Static Roll/Pitch
    - 0.5' Dynamic Roll/Pitch
    - 1.0' Yaw
    - 18' / h/ Gyro Bias Stability

## Tether

- **Neutral Performance:** Neutral buoyancy, smaller diameter
- **Standard Neutral:** Neutral buoyancy
- **Negative Extension:** Negative buoyancy
- **Breaking Strength:** 680 kgs (1,500 lbs)
- **Management:** Tether Deployment and Storage Reel

## Remotely Operated Vehicle system

### System Information

- **Power Requirements:** 110/220 VAC (1 to 2.6 kW) or better
- **Total System Weight (Sub & OCC):** 32.5 kgs (71.6 lbs)
- **Cases:** 2 Watertight Rugged Hard Cases
- **Owner's Manual:** Online Digital
- **System Tool Kit:** Basic Tool Kit
- **Communications Protocol:** RS-485 and Ethernet or better
- **Warranty:** 2 year limited



## Camera

- **High Definition:** With Ethernet interface (IP) or better
- **Video:** up to 1920 x 1080, 25 fps or better
- **Mechanical:** Standard 9 pin connection Ethernet, 12 VDC, RS-485. Auto or Manual Focus Optical Glass Dome or equal to or better
- **Features:** White Balance Control up to 16x Digital zoom (64 steps) 13 Megapixel Still Image Capture or better
- **Sensitivity:** Less than 1 lux (standard)
- **View Angle:** 160° Tilt (180° FoV) Horizontal: 136° Vertical: 91°
- **Interface:** Ethernet/RS-485 or better
- **Compression:** h.264

## Power

- 400 VDC power Module
- 1500W @ 48 VDC
- Full monitoring of input voltage, output current, temperature.

## Submersible

- **Depth Rating:**
  - Up to 1,000 m (3,280 ft)
- **Size:**
  - 75.16 x 39.37 x 26.67 cm (29.59 x 15.5 x 10.5 in)
- **Weight:**
  - 17.2 kg (38 lbs)
- **Ballast:**
  - Modular
- **Case:**
  - 79.5 x 51.8 x 31 cm (31.3 x 20.4 x 12.2 in) 9.4 kg (20.8 lbs)

## Rotating Manipulator Arm Tool

### Specifications

- **Depth rating:** 300m (1,000ft)
- **Weight (air):** 0.36 kg (0.79 lbs)
- **Weight (water):** 0.24 kg (0.53 lbs)
- **Claw length:** 78 mm (3.07 in)
- **Full length:** 195 mm (7.67 in)
- **Travel (time to close):** 2.5mm/s
- **Closing Force:** 600N

## **Multibeam Sonar**

### **Specifications equal to or better**

- **OPERATING FREQUENCY:** 750kHz/ 1.2 MHz
- **RANGE (MAX):** 120m/40m (393ft/131ft)
- **RANGE (MIN):** 0.1 M (0.3 ft)
- **RANGE RESOLUTION:** 4 mm / 2.5 mm
- **HORIZONTAL APERTURE:** 130°/130°
- **VERTICAL APERTURE:** 20°/20°

**Delivery to: 22361 S Bald Hill Rd, Tahlequah, OK 74451**

**Delivery within 60 days of bid award.**

**Please provide a detail list of the items being submitted. Please provide warranty and specifications. Will need training on site.**