

**THE  
UNIVERSITY  
OF RHODE ISLAND**

**DIVISION OF  
ADMINISTRATION  
AND FINANCE**

**PURCHASING DEPARTMENT**  
210 Flagg Road, Kingston, RI 02881 USA

p: 401.874.2171

f: 401.874.2306

[uri.edu/strategic-procurement/purchasing](http://uri.edu/strategic-procurement/purchasing)

THINK BIG  WE DO™



**BID/PROPOSAL**

COMMODITY: \_\_\_\_\_ DATE: \_\_\_\_\_

FORMAL BID NO. \_\_\_\_\_ PUBLIC BID NO. \_\_\_\_\_

BIDS ARE TO BE RECEIVED IN URI PURCHASING DEPARTMENT BY: DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
Eastern Time

BUYER: \_\_\_\_\_ SURETY REQUIRED: YES: \_\_\_\_\_ NO: \_\_\_\_\_

PRE-BID/PROPOSAL CONFERENCE: DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

MANDATORY: YES: \_\_\_\_\_ NO: \_\_\_\_\_

LOCATION: \_\_\_\_\_  
\_\_\_\_\_

Questions concerning this solicitation must be received by: DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

Questions are to be submitted in a *Microsoft Word* document to: [URIPurchasing@uri.edu](mailto:URIPurchasing@uri.edu)

Please reference the Bid Number on all correspondence. Questions received, if any, will be posted on the Internet as an addendum to the bid. It is the responsibility of all interested parties to download this information.

For Bid Solicitation Information visit: <http://web.uri.edu/purchasing/bid-information/>

**STATEMENT REGARDING COVID-19**

**Effective immediately, we are suspending all in-person public bid openings until further notice**

Public Bid responses will be publicly read via Webex video conferencing. To participate in the bid opening, please visit the following site at the scheduled bid opening date and time:

\* URL: <https://rhody.webex.com/meet/uripurcasing>

**No offer will be considered that is not accompanied by the attached University of Rhode Island Bidder Certification Form/Contract Offer completed and signed by the offeror.**

COMPANY NAME: \_\_\_\_\_

STREET AND NUMBER: \_\_\_\_\_

CITY, STATE & ZIP CODE: \_\_\_\_\_

\_\_\_\_\_  
Print Name and Title

\_\_\_\_\_  
Telephone Number/Facsimile Number

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
E-mail address

**THIS BID WILL NOT BE HONORED UNLESS SIGNED**

**University of Rhode Island Bidder Certification Form**  
**Board of Trustees Procurement Regulations**

ALL OFFERS ARE SUBJECT TO THE REQUIREMENTS, PROVISIONS AND PROCEDURES CONTAINED IN THIS CERTIFICATION FORM. Offerors are expected to read, sign and comply with all requirements. Failure to do so may be grounds for disqualification of the offer contained herein.

Rules for Submitting Offers

This Certification Form must be attached in its entirety to the front of the offer and shall be considered an integral part of each offer made by a vendor to enter into a contract with the University of Rhode Island. As such, submittal of the entire Bidder Certification Form, signed by a duly authorized representative of the offeror attesting that he/she (1) has read and agrees to comply with the requirements set forth herein and (2) to the accuracy of the information provided and the offer extended, is a mandatory part of any contract award.

To assure that offers are considered on time, each offer must be submitted with the specific Bid/RFP/LOI number, date and time of opening marked in the upper left hand corner of the envelope. Each bid/offer must be submitted in separate sealed envelopes.

A complete signed (in ink) offer package must be delivered to the University of Rhode Island Purchasing Office by the time and date specified for the opening of responses in a sealed envelope.

Bid responses must be submitted on the URI bid solicitation forms provided, indicating brand and part numbers of items offered, as appropriate. Bidders must submit detailed cuts and specs on items offered as equivalent to brands requested WITH THE OFFER. Bidders must be able to submit samples if requested.

Documents misdirected to other State or University locations or which are not present in the University of Rhode Island Purchasing Office at the time of opening for whatever cause will be deemed to be late and will not be considered. For the purposes of this requirement, the official time and date shall be that of the time clock in the reception area of the University of Rhode Island Purchasing Office. Postmarks shall not be considered proof of timely submission.

RIVIP SOLICITATIONS. To assure maximum access opportunities for users, public bid solicitations shall be posted on the RIVIP for a minimum of seven days and no amendments shall be made within the last five days before the date an offer is due. Except when access to the Web Site has been severely curtailed and it is determined by the Purchasing Agent that special circumstances preclude extending a solicitation due date, requests to mail or fax hard copies of solicitations will not be honored.

PRICING. Offers are irrevocable for sixty (60) days from the opening date (or such other extended period set forth in the solicitation), and may not be withdrawn, except with the express permission of the University Purchasing Agent. All pricing will be considered to be firm and fixed unless otherwise indicated. The University of Rhode Island is exempt from Federal excise taxes and State Sales and Use Taxes. Such taxes shall not be included in the bid price.

ALL PRICES QUOTED ARE FOB DESTINATION.

DELIVERY and PRODUCT QUALITY. All offers must define delivery dates for all items; if no delivery date is specified, it is assumed that immediate delivery from stock will be made. The contractor will be responsible for delivery of materials in first class condition. Rejected materials will be at the vendor's expense.

PREVAILING WAGE, OSHA SAFETY TRAINING and APPRENTICESHIP REQUIREMENTS. Bidders must comply with the provisions of the Rhode Island labor laws, including R.I. Gen. Laws §§ 37-13-1 et seq. and occupational safety laws, including R.I. Gen. Laws §§ 28-20-1 et seq. These laws mandate for public works construction projects the payment of prevailing wage rates, the implementation and maintenance of occupational safety standards, and for projects with a minimum value of \$1 Million, the employment of apprentices. The successful Bidder must submit certifications of compliance with these laws from each of its subcontractors prior to their commencement of any work. Prevailing wage rates, apprenticeship requirements, and other workforce and safety regulations are accessible at [www.dlt.ri.gov](http://www.dlt.ri.gov).

PUBLIC RECORDS. Offerors are advised that all materials submitted to the University for consideration in response to this solicitation will be considered without exception to be Public Records pursuant to Title 38 Chapter 2 of the Rhode Island General Laws, and will be released for inspection immediately upon request once an award has been made. Offerors are encouraged to attend public bid/RFP openings to obtain information; however, bid/RFP response summaries may be reviewed after award(s) have been made by visiting the Rhode Island Vendor Information Program (RIVIP) at [www.purchasing.ri.gov](http://www.purchasing.ri.gov) > Solicitation Opportunities > Other Solicitation Opportunities. Telephone requests for results will not be honored. Written requests for results will only be honored if the information is not available on the RIVIP.

Award will be made to the responsive and responsible offeror quoting the lowest net price in accordance with specifications, for any individual item(s), for major groupings of items, or for all items listed, at the University's sole option.

BID SURETY. Where bid surety is required, bidder must furnish a bid bond or certified check for 5% of the bid total with the bid, or for such other amount as may be specified. Bids submitted without a required bid surety will not be considered.

SPECIFICATIONS. Unless specified “no substitute”, product offerings equivalent in quality and performance will be considered (at the sole option of the University) on the condition that the offer is accompanied by detailed product specifications. Offers which fail to include alternate specifications may be deemed nonresponsive.

VENDOR AUTHORIZATION TO PROCEED. When a purchase order, change order, contract/agreement or contract/agreement amendment is issued by the University of Rhode Island, no claim for payment for services rendered or goods delivered contrary to or in excess of the contract terms and scope shall be considered valid unless the vendor has obtained a written change order or contract amendment issued by the University of Rhode Island Purchasing Office PRIOR to delivery.

Any offer, whether in response to a solicitation for proposals or bids, or made without a solicitation, which is accepted in the form of an order OR pricing agreement made in writing by the University of Rhode Island Purchasing Office, shall be considered a binding contract.

REGULATIONS, GENERAL TERMS AND CONDITIONS GOVERNING STATE AND THE UNIVERSITY OF RHODE ISLAND CONTRACTS. This solicitation and any contract or purchase order arising from it are issued in accordance with the specific requirements described herein, and the State’s [Purchasing Laws](#) and the [URI Board of Trustees Regulations and General Terms and Conditions of Purchase](#).

EQUAL EMPLOYMENT OPPORTUNITY. Compliance certificate and agreement procedures will apply to all awards for supplies or services valued at \$10,000 or more. Minority Business Enterprise policies and procedures, including subcontracting opportunities as described in Title 37 Chapter 14.1 of the Rhode Island General Laws also apply.

PERFORMANCE BONDS. Where indicated, successful bidder must furnish a 100% performance bond and labor and payment bond for contracts subject to Title 37 Chapters 12 and 13 of the Rhode Island General Laws. All bonds must be furnished by a surety company authorized to conduct business in the State of Rhode Island. Performance bonds must be submitted within 21 calendar days of the issuance of a tentative notice of award.

DEFAULT and NON-COMPLIANCE Default and/or non-compliance with the requirements and any other aspects of the award may result in withholding of payment(s), contract termination, debarment, suspension, or any other remedy necessary that is in the best interest of the state/University of Rhode Island.

COMPLIANCE Vendor must comply with all applicable federal, state and local laws, regulations and ordinances.

SPRINKLER IMPAIRMENT AND HOT WORK. The Contractor agrees to comply with the practices of the State’s Insurance carrier for sprinkler impairment and hot work. Prior to performing any work, the Contractor shall obtain the necessary information for compliance from the Risk Management Office at the Department of Administration or the Risk Management Office at the University of Rhode Island.

Each bid proposal for a *public works project* must include a “public copy” to be available for public inspection upon the opening of bids. **Bid Proposals that do not include a copy for public inspection will be deemed nonresponsive.**

For further information on how to comply with this statutory requirement, see [R.I. Gen. Laws §§ 37-2-18\(b\) and \(j\)](#). Also see State of Rhode Island Procurement Regulation 5.11 at : <https://ridop.ri.gov/about-us/procurement-statutes-and-regulations>

**SECTION 2 – DISCLOSURES**

**ALL CONTRACT AWARDS ARE SUBJECT TO THE FOLLOWING DISCLOSURES & CERTIFICATIONS**

Offerors must respond to every disclosure statement. A person authorized to enter into contracts must sign the offer and attest to the accuracy of all statements.

**Indicate Yes (Y) or No (N):**

\_\_\_\_1 State whether your company, or any owner, stockholder, officer, director, member, partner, or principal thereof, or any subsidiary or affiliated company, has been subject to suspension or debarment by any federal, state, or municipal government agency, or the subject of criminal prosecution, or convicted of a criminal offense with the previous five (5) years. If Yes, then provide details below.

\_\_\_\_2 State whether your company, or any owner, stockholder, officer, director, member, partner, or principal thereof, or any subsidiary or affiliated company, has had any contracts with a federal, state or municipal government agency terminated for any reason within the previous five (5) years. If Yes, then provide details below.

\_\_\_\_3 State whether your company or any owner, stockholder, officer, director, member, partner, or principal thereof, or any subsidiary or affiliated company, has been fined more than \$5000 for violation(s) of Rhode Island environmental laws by the Rhode Island Department of Environmental Management within the previous five (5) years. If Yes, then provide details below.

\_\_\_\_4 State whether any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder is serving or has served within the past two calendar years as either an appointed or elected official of any state governmental authority or quasi-public corporation, including without limitation, any entity created as a legislative body or public or state agency by the general assembly or constitution of this state. If Yes, then provide details below.

IF YOU HAVE ANSWERED “YES” TO QUESTIONS #1 – 4 PROVIDE DETAILS/EXPLANATION IN AN ATTACHED STATEMENT. INCOMPLETE CERTIFICATION FORMS SHALL BE GROUNDS FOR DISQUALIFICATION OF OFFER.

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**SECTION 3 - OWNERSHIP DISCLOSURE**

**Vendors must provide all relevant information. Bid proposals submitted without a complete response may be deemed nonresponsive.**

If the vendor is privately held, the vendor shall provide ownership information below.

List each officer, director, manager, stockholder, member, partner, or other owner or principle of the Bidder, and each intermediate parent company and the ultimate parent company of the Bidder. For each individual, provide his or her name, business address, principal occupation, position with the Vendor, and the percentage of ownership, if any, he or she holds in the Vendor, and each intermediate parent company and the ultimate parent company of the Vendor.

If the company is publicly held, the vendor may provide owner information about only those stockholders, members, partners, or other owners that hold at least 10% of the record or beneficial equity interests of the vendor; otherwise, complete ownership disclosure is required.

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SECTION 4 - CERTIFICATIONS

Bidders must respond to every statement. Bid proposals submitted without a complete response may be deemed nonresponsive.

Indicate "Y" (Yes) or "N" (No), and if "No," provide details below.

THE VENDOR CERTIFIES THAT:

\_\_\_1 I/we certify that I/we will immediately disclose, in writing, to the University Purchasing Agent any potential conflict of interest which may occur during the course of the engagement authorized pursuant to this contract.

\_\_\_2 I/we acknowledge that, in accordance with (1) Chapter §37-2-54(c) of the Rhode Island General Laws "no purchase or contract shall be binding on the state or any agency thereof unless approved by the Department [of Administration] or made under general regulations which the Chief Purchasing Officer may prescribe," and (2) RIGL section §37-2-7(16) which identifies the URI Board of Trustees as a public agency and gives binding contractual authority to the University Purchasing Agent, including change orders and other types of contracts and under State Purchasing Regulation 8.2.B any alleged oral agreement or arrangements made by a bidder or contractor with any agency or an employee of the University of Rhode Island may be disregarded and shall not be binding on the University of Rhode Island.

\_\_\_3 I/we certify that I or my/our firm possesses all licenses required by Federal and State laws and regulations as they pertain to the requirements of the solicitation and offer made herein and shall maintain such required license(s) during the entire course of the contract resulting from the offer contained herein and, should my/our license lapse or be suspended, I/we shall immediately inform the University of Rhode Island Purchasing Agent in writing of such circumstance.

\_\_\_4 I/we certify that I/we will maintain required insurance during the entire course of the contract resulting from the offer contained herein and, should my/our insurance lapse or be suspended, I/we shall immediately inform the University of Rhode Island Purchasing Agent in writing of such circumstance.

\_\_\_5 I/we certify that I/we understand that falsification of any information herein or failure to notify the University of Rhode Island Purchasing Agent as certified herein may be grounds for suspension, debarment and/or prosecution for fraud.

\_\_\_6 I/we acknowledge that the provisions and procedures set forth in this form apply to any contract arising from this offer.

\_\_\_7 I/we acknowledge that I/we understand the State's Purchasing Laws ([§37-2 of the General Laws of Rhode Island](#)) and the [URI Board of Trustees Regulations](#) apply as the governing conditions for any contract or purchase order I/we may receive from the University of Rhode Island, including the offer contained herein.

\_\_\_8 I/we certify that the bidder: (i) is not identified on the General Treasurer's list, created pursuant to R.I. Gen. Laws § 37-2.5-3, as a person or entity engaging in investment activities in Iran described in § 37-2.5-2(b); and (ii) is not engaging in any such investment activities in Iran.

\_\_\_9 If the product is subject to Department of Commerce Export Administration Regulations (EAR) or International Traffic in Arms Regulations (ITAR), please provide the Export Control Classification Number (ECCN) or the US Munitions List (USML) Category: \_\_\_\_\_

\_\_\_10 I/we certify that the above information is correct and complete.

IF YOU ARE UNABLE TO CERTIFY YES TO QUESTIONS #1 – 8 and 10 OF THE FOREGOING, PROVIDE DETAILS/EXPLANATION IN AN ATTACHED STATEMENT. INCOMPLETE CERTIFICATION FORMS SHALL BE GROUNDS FOR DISQUALIFICATION OF OFFER.

**Signature below commits vendor to the attached offer and certifies (1) that the offer has taken into account all solicitation amendments where applicable, (2) that the above statements and information are accurate and that vendor understands and has complied with the requirements set forth herein.**

Vendor/Company Name; \_\_\_\_\_

Vendor's Signature: \_\_\_\_\_ Bid Number: \_\_\_\_\_ Date: \_\_\_\_\_  
(Person Authorized to enter into contracts; signature must be in ink) (if applicable)

\_\_\_\_\_  
Print Name and Title of Company official signing offer

COMMODITY: R/V Endeavor Bridge Marine Electronics Refresh  
OPENING DATE & TIME: 12/5/2024 1:00 PM

SHIP TO: University of Rhode Island  
GSO Marine Office  
NBC, 20 Receiving Rd.  
Narragansett, RI 02882-1197

BIDDER (NAME OF FIRM)

BIDDER (NAME OF FIRM)

BID NO: 101438

BID NO: 101438

ATTACHMENT "A"

ITEM NO.	DESCRIPTION	QUANTITY	UOM	EXTENDED PRICE	EXTENDED PRICE	ITEM NO.
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INSTRUCTIONS:

IF BIDDING ON ANY ITEM, THE ENTIRE BID MUST BE RETURNED. THE PRICE COLUMN ON THE RIGHT WILL BE DETACHED TO CREATE A BID TABULATION SPREAD SHEET FOR THE "OFFICIAL BID ANALYSIS", THEREFORE:

- A. VENDOR NAME MUST APPEAR IN BOTH COLUMNS ON "EVERY" PAGE UNDER THE WORDS "BIDDER"
- B. PRICE COLUMNS MUST CONTAIN "EXACTLY" THE SAME INFORMATION.
- C. ANY SUPPLEMENTARY INFORMATION MUST BE REPEATED IN "BOTH" COLUMNS.
- D. TO ASSURE THAT OFFERS ARE CONSIDERED ON TIME, EACH OFFER MUST BE SUBMITTED WITH SPECIFIC BID/RFP NUMBER (PROVIDED ABOVE), DATE AND TIME OF OPENING MARKED IN THE UPPER LEFT HAND CORNER OF ENVELOPE. EACH BID/OFFER MUST BE SUBMITTED IN SEPARATE SEALED ENVELOPES:

<b>MAIL TO:</b>  UNIVERSITY OF RHODE ISLAND P.O. BOX 1773 PURCHASING DEPARTMENT KINGSTON, RI 02881	<b>COURIER:</b>  UNIVERSITY OF RHODE ISLAND PURCHASING DEPARTMENT 210 FLAGG ROAD KINGSTON, RI 02881-2010
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DOCUMENTS MISDIRECTED TO OTHER STATE LOCATIONS OR WHICH ARE NOT PRESENT IN THE UNIVERSITY OF RHODE ISLAND PURCHASING DEPARTMENT AT THE TIME OF OPENING FOR WHATEVER CAUSE WILL BE DEEMED TO BE LATE AND WILL NOT BE CONSIDERED. FOR THE PURPOSE OF THIS REQUIREMENT, THE OFFICIAL TIME AND DATE SHALL BE THAT OF THE TIME CLOCK IN THE UNIVERSITY OF RHODE ISLAND PURCHASING DEPARTMENT. POSTMARKS SHALL NOT BE CONSIDERED PROOF OF TIMELY SUBMISSION.

FAILURE TO COMPLETE FORM AS INSTRUCTED MAY BE GROUNDS FOR "DISQUALIFICATION".

**GROUP PURCHASING ORGANIZATIONS (GPO):**

**THE UNIVERSITY OF RHODE ISLAND IS A MEMBER OF THE FOLLOWING:**

- 1) Educational & Institutional Cooperative Purchasing (E&I)
- 2) Provista

**DO NOT ATTACH QUOTES. QUOTATIONS SUBMITTED WITH BID RESPONSES WILL NOT BE CONSIDERED. ALL BID RESPONSES ARE IN ACCORDANCE WITH THE ATTACHED BID SPECIFICATIONS AND THE BOARD OF GOVERNORS FOR HIGHER EDUCATION PROCUREMENT REGULATIONS:**

- <http://www.ribghe.org/procurementregs113006.pdf>

COMMODITY: R/V Endeavor Bridge Marine Electronics Refresh  
 OPENING DATE & TIME: 12/5/2024 1:00 PM

SHIP TO: University of Rhode Island  
 GSO Marine Office  
 NBC, 20 Receiving Rd.  
 Narragansett, RI 02882-1197

BIDDER (NAME OF FIRM)

BIDDER (NAME OF FIRM)

BID NO: 101438

BID NO: 101438

ATTACHMENT "A"

ITEM NO.	DESCRIPTION	QUANTITY	UOM	EXTENDED PRICE	EXTENDED PRICE	ITEM NO.
<p><b>R/V Endeavor Bridge Marine Electronics Refresh</b>            Replace some navigation electronics on the RV Endeavor  <b>Per the attached required specifications.</b></p> <p><b>NON-MANDATORY PRE-BID 11/21/2024 10:30AM</b>            LOCATION: 124 Zarbo Ave N. Kingstown, RI 02852            SEE ATTACHED FOR ADDITIONAL PRE-BID INFO</p>						
1	Replacement of X-Band radar	1	TOT	\$ _____	\$ _____	1
2	Replacement of S-Band Radar	1	TOT	\$ _____	\$ _____	2
3	Replacement of AIS Transponder	1	TOT	\$ _____	\$ _____	3
4	Training on Newly Installed Equipment	1	TOT	\$ _____	\$ _____	4
5	Warranty and Technical Support	1	TOT	\$ _____	\$ _____	5

**INSURANCE**

IN ACCORDANCE WITH THE BOARD OF GOVERNORS (BOG) FOR HIGHER EDUCATION GENERAL CONDITIONS OF PURCHASE, INSURANCE CERTIFICATES ARE REQUIRED FOR WORKERS COMPENSATION, GENERAL LIABILITY, PROPERTY DAMAGE AND AUTO INSURANCE. UPON NOTICE OF TENTATIVE AWARD, THE SUCCESSFUL BIDDER(S) WILL BE REQUIRED TO SUBMIT THE ABOVE NAMING THE UNIVERSITY OF RHODE ISLAND, THE URI BOARD OF TRUSTEES, AND THE STATE OF RHODE ISLAND AS ADDITIONAL INSURED, BY A FIRM AUTHORIZED TO DO BUSINESS IN THE STATE OF RHODE ISLAND.



## Solicitation for

### ***R/V Endeavor Bridge Marine Electronics Refresh***

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## Summary

The proposal is to replace the X-Band Radar, S-Band Radar, and Automatic Identification System (AIS) transponder on the R/V Endeavor for the University of Rhode Island. The selected vendor will conduct a 1-hour informal training session with equipment operators and technical staff upon completion of work. The selected vendor must provide technical and warranty support of the new equipment specified and installed as part of this work for 1-year following the completion of the job.

## General Requirements

- A. The vendor will be responsible for the procurement of all parts, cabling, and installation materials needed to complete the scope of work.
- B. The vendor will provide their own tools to complete the scope of work.
- C. The quality of installation and workmanship is expected to be in accordance with NMEA and ABYC electrical standards.
- D. The vendor will follow all OSHA safety regulations and will supply their own PPE and fall protection equipment.



- E. The exact installation window and job site will be negotiated between the RV Endeavor management and the vendor upon award. The job site is expected to be within 15 miles of the University of Rhode Island Graduate School of Oceanography. The desired installation period is before January 22, 2025.
- F. The vendor will coordinate the delivery of all parts and materials to the negotiated job site.
- G. URI will assume responsibility for the scheduling of cranes needed to install antennas.
- H. URI will assume responsibility for the lockout/tagout of equipment and circuits as needed for the scope of work.
- I. URI will assume responsibility for the disposal of equipment removed in the scope of work.
- J. No electrical power wiring requiring a licensed electrician is expected to complete the scope of work. URI will assume responsibility for electrical power wiring should the need arise.
- K. The RV Endeavor has crew and technical staff who can assist with questions, interfacing to ship's equipment, and cable runs.
- L. No welding (hot work) is anticipated to complete this scope of work. The existing aluminum superstructure and console pedestals may be reused.
- M. The vendor will provide as-installed diagrams and documentation specific to the installation on the R/V Endeavor.

## Deliverable 1. Replacement of X-Band Radar

The vendor will remove the existing Raytheon Synapsis above and below decks equipment and replace with a new IMO type approved X-band radar. The new replacement radar shall maximize parts compatibility with the Furuno FAR-3220BB (25KW) being delivered with URI's future research vessel which is presently under construction. A diagram of the antenna and console location can be seen in **figure 6**.

The new X-band radar shall be ARPA enabled. The new X-band radar shall interface with the following systems using existing inputs:

- Gyrocompass, Sperry Mk37, NMEA 0183 input 4800 baud or 38,400 baud @10Hz
- AIS (new, replacement in the scope of this solicitation)
- Speed Log, Furuno DS520, NMEA 0183 input 4800 baud @ 1Hz
- GPS, selectable, NMEA 0183 input 4800 baud @1Hz

The vendor may reuse the existing display console platform located in the RV Endeavor bridge as shown in **figure 4**. 120VAC 60Hz uninterruptable input power and NMEA 0183 inputs described above are available in the console platform.

Two 120VAC 60Hz power cables are available on the radar antenna platform for antenna power. Any proprietary data/interface/power cables between the antenna and below-decks display consoles will be installed by the vendor. The cable run from the display console to the antenna pedestal is 80-100ft shown in **figure 7**.



Cross-linking cables which may be needed between the X-band radar and S-band radar consoles shall be installed by the vendor. The cable run between the port and starboard radar consoles is 20ft. A diagram showing the layout of the consoles is shown in **figure 1**.

## Deliverable 2. Replacement of S-Band Radar

The vendor will remove the existing Raytheon Synapsis above and below decks equipment and replace with a new IMO type approved S-band radar. The new replacement radar shall maximize parts compatibility with the Furuno FAR-3230SBB12 (30KW) being delivered with URI's future research vessel which is presently under construction. A diagram of the antenna and console location can be seen in **figure 6**.

The new S-band radar shall be ARPA enabled. The new S-band radar shall interface with the following systems using existing inputs:

- Gyrocompass, Sperry Mk37, NMEA 0183 input 4800 baud or 38,400 baud @10Hz
- AIS (new, replacement in the scope of this solicitation)
- Speed Log, Furuno DS520, NMEA 0183 input 4800 baud @ 1Hz
- GPS, selectable, NMEA 0183 input 4800 baud @1Hz

The vendor may reuse the existing display console platform located in the RV Endeavor bridge as shown in **figure 4**. 120VAC 60Hz uninterruptable input power and NMEA 0183 inputs described above are available in the console platform.

Two 120VAC 60Hz power cables are available on the radar antenna platform for antenna power. Any proprietary data/interface/power cables between the antenna and below-decks display consoles will be installed by the vendor. The cable run from the display console to the antenna pedestal is 80-100ft shown in **figure 7**.

Cross-linking cables which may be needed between the X-band radar and S-band radar consoles shall be installed by the vendor. The cable run between the port and starboard radar consoles is 20ft. A diagram showing the layout of the consoles is shown in **figure 1**.

## Deliverable 3. Replacement of AIS Transponder

The vendor will remove the existing Furuno FA-100 AIS and associated antenna and cabling and replace with a new IMO approved AIS transponder and antenna. The new AIS shall be compatible with existing Furuno bridge equipment. A photo of the AIS transponder location is shown in **figure 5**.

The new AIS shall provide NMEA 0183 outputs to existing ship's equipment and the new radars identified in deliverables 1 and 2. The new AIS shall interface with the following systems using existing inputs:

- Gyrocompass, Sperry Mk37, NMEA 0183 input 4800 baud or 38,400 baud @10Hz
- Speed Log, Furuno DS520, NMEA 0183 input 4800 baud @ 1Hz
- GPS, selectable, NMEA 0183 input 4800 baud @1Hz



12VDC and 120VAC input power are available in the existing AIS display location.

The vendor will need to install new antenna cabling from the display unit to the main mast upper platform. The cable run from the existing transponder to the antenna is 80-100ft. A cable path diagram to the upper mast platform can be seen in **figure 7**.

NMEA 0183 data cabling from the existing AIS to the chart plotter and radars may be reused. Any new or proprietary cabling will be installed by the vendor.

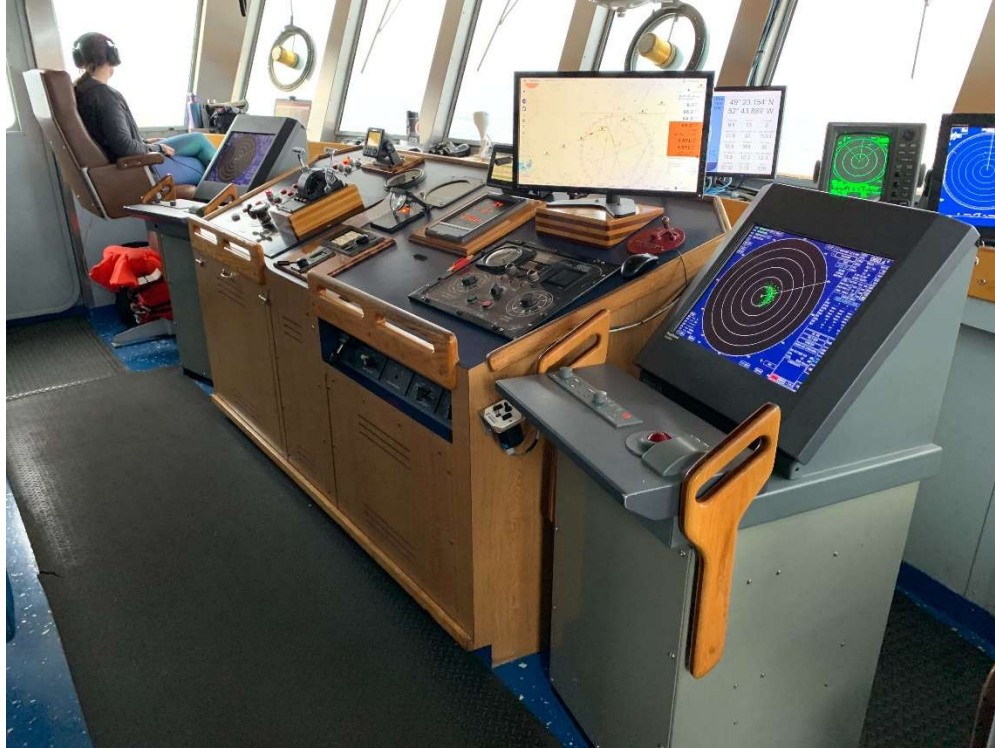
## Deliverable 4. Training on Newly Installed Equipment

The vendor will conduct a 1-hour minimum informal training session with the RV Endeavor crew and technicians on the basic operation and features of the X-band radar, S-band radar, and AIS.

The vendor will conduct a 1-hour minimum informal technical training session with the RV Endeavor technical staff. Technical training shall include information on the installation specifics, basic troubleshooting, and maintenance of the installed equipment.

## Deliverable 5. Warranty and Technical Support

The vendor will provide 1 year of warranty and technical support following completion of the installation. Warranty and technical support is limited to the equipment installed as part of this solicitation and does not include existing vessel equipment which may be interfaced.



*Figure 1. Bridge Console Showing X and S Band Raytheon Radars*



*Figure 2. Port Side (S-Band) Console*



*Figure 3. Starboard Side (X-band) Console*



*Figure 4. Vendor can Reuse the Console Pedestals*



*Figure 5. Installation Location for AIS*

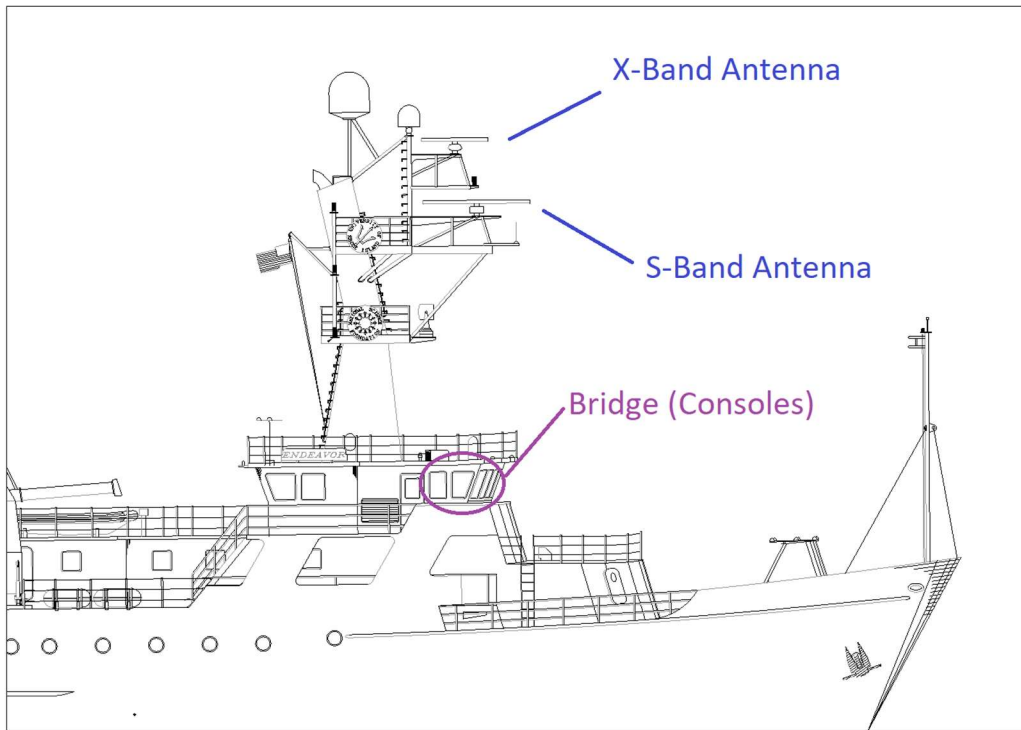


Figure 6. Radar Antenna (Scanner) Locations in relation to Consoles

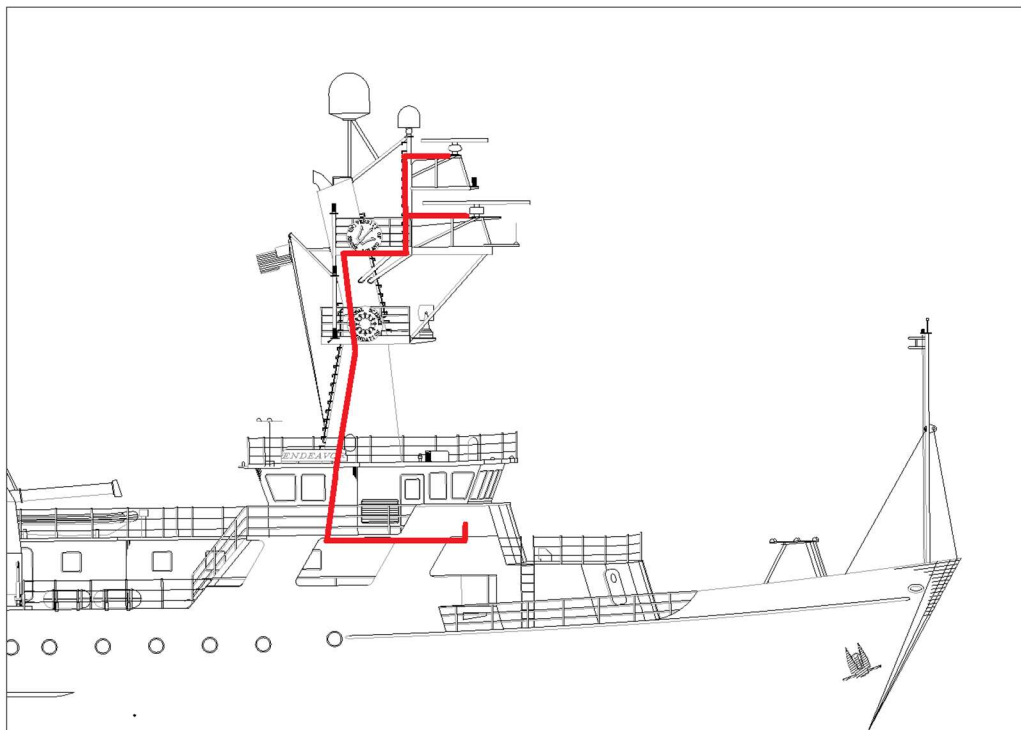


Figure 7. Radar Antenna Cable Path to Consoles (80-100ft)

## **NON-MANDATORY PRE-BID INFORMATION**

DATE: 11/21/2024

TIME: 10:30AM

LOCATION: 124 Zarbo Ave. N. Kingstown, RI 02852

Hard toed shoes and Hard Hat required to enter the yard.

Parking is outside of the gate, next to the old railroad track. See image below for parking and ship location.

