



Rhode Island Turnpike and Bridge Authority

April 8, 2024

**Invitation for Bid
Racon (Radar Transponder Beacon)
Contract No. 24-04**

INTRODUCTION

The Rhode Island Turnpike and Bridge Authority (RITBA) is seeking bids from factory authorized dealers to provide a Racon (Radar Transponder Beacon).

Due date for bids is no later than 2:00pm April 15, 2024, at which time they will be publicly opened. Bids must be in a sealed envelope clearly marked "IFB No. 24-04 Racon (Radar Transponder Beacon). RITBA will not accept electronic bid submissions (email, web, fax, etc.) or late bids under any circumstances. RITBA accepts no financial responsibility for any costs incurred by a firm in responding to this IFB, participating in oral presentations, or meeting with RITBA prior to being awarded the contract. The proposals in response to this IFB become the property of RITBA and may be used by RITBA in any way it deems appropriate. All information submitted in response to this IFB is deemed public and subject to disclosure unless a separate redacted public copy is submitted, regardless of whether the information is marked confidential/proprietary. Firm's may redact in the public copy any trade secrets or commercial or financial information which is of a privileged or confidential nature pursuant to the Access to Public Records Act (R.I. Gen. Laws § 38-2 et. seq.). If Firm does not submit a redacted public copy, RITBA assumes that firm is not seeking confidential treatment for any of its information and thus, all information is subject to public disclosure. By submitting a proposal, the firm certifies that it has fully read and understands the IFB, has full knowledge of the scope of work to be provided, and accepts the terms and conditions under which the services are to be performed. RITBA will be the sole judge in determining as equivalent products (if applicable).

Questions related to this solicitation may be submitted to procurement@ritba.org no later than by **5:00pm April 9, 2024**. Direct contact with RITBA staff or Board of Directors is strictly prohibited unless submitted in writing to procurement@ritba.org. RITBA may issue an addendum by **end of day EDT, April 10, 2024**, to respond to any relevant questions raised by potential bidders and for any other purposes deemed necessary by RITBA. This addendum will be posted to <https://www.ritba.org> and <https://www.purchasing.ri.gov>.

Bid specifications:

Must include a factory warranty for a minimum of 1 year and delivery must be within 30 days of bid approval by RITBA Board of Directors on April 24, 2024.

Must include all required programming.

Minimum specifications must include the following:

Frequency of Operation

X-Band 9300 to 9500 GHz

S-Band 2900 to 3100 GHz Frequency Matching accuracy +2 MHz Output Power to

Antenna 1.0 Watts (30 dBm)

Pulse width Response

Minimum 50 nanoseconds

Maximum 2000 nanosecond

Racon Response Display Scaling

Pulse width (+50 ns typical) Racon Response (+5 s typical)
800 nanoseconds to MAX nanoseconds selected value
450 nanoseconds to 800 nanoseconds 75% of selected value
215 nanoseconds to 450 nanoseconds 50% of selected value
50 nanoseconds to 215 nanoseconds 25% of selected value
System Sensitivity
X-Band -50 dBm
S-Band -50 dBm
Response Rate Maximum (either band) 10 KHz
Response Delay Maximum (100 meters) 667 nanoseconds
Radar Blanking External blanking control ports available
System Test Monitor
Built-in Audible Beeper
External A Transistor Switch for Go/No Go
External B RS-232C Communications Port for monitor, control, and field programming feature
Power Supply Input Voltage
GMU 9 – 36 nominal 12 VDC
Lightning Protection – Surge Protection 1 millisecond at 3000 volts
Quiescent Power Consumption 0.24 Watts
Nominal Power Consumption
Light Traffic 0.75 Watts
Heavy Traffic 1.06 Watts
Quiescent Period Programmable 0 to 60 seconds
Extended Quiescent Programmable selectable
Active Period Programmable 4 to 60 seconds
X-Band
Gain 6 dBi
Polarization Horizontal
Vertical Divergence 22 degrees
Effective Radiated Power 4.0 Watts
Specifications - Continued
S-Band
Gain 6 dBi
Polarization Horizontal
Vertical Divergence 22 degrees
Effective Radiated Power 4.0 Watts
S-Band Dual Polarization
Gain 1 dBi (Horizontal); 0 dBi (Vertical) Polarization Horizontal and Vertical
Divergence 22 degrees
Effective Radiated Power 1.0 to 1.3 Watts
Submersion Capability – Maximum Depth 10 meters (35 feet) Dimensions

BONDS

Not applicable

SUBCONTRACTORS

The bidder must demonstrate that it is able to perform a substantial portion of the work using its own workforce. Any bidder that does not maintain a permanent workforce and/or proposed to perform a disproportionate amount of the work through one or more subcontractors may be considered unqualified. The successful bidder must establish to the satisfaction of RITBA the reliability and responsibility of any subcontractors proposed to perform any work pursuant to this solicitation.

WITHDRAWAL

A bidder may withdraw its bid proposal at any time prior to the bid proposal submission deadline. Bid proposals are irrevocable for a period of sixty (60) days following the bid proposal submission deadline.

INSURANCE REQUIREMENTS

Not applicable

MINORITY BUSINESS ENTERPRISES PARTICIPATION

The firm must indicate that it will comply with all applicable Federal, State and Local regulations and laws, including Affirmative Action and the Disadvantaged Business Enterprise programs. In accordance with R.I. Gen. Laws § 37-14.1-6. It is the policy of the State of Rhode Island to support the fullest possible participation of firms owned and controlled by minorities (MBEs) and women (WBEs) (collectively referred to as MBEs herein) in the performance of State procurements and projects.

ADDITIONAL REQUIREMENTS

Campaign Finance Compliance

Every person or business entity providing goods or services at a cost of \$5,000 cumulated value is required to file an affidavit regarding political campaign contributions with the RI State Board of Elections even if no reportable contributions have been made. R.I.G.L. § 17-27 Forms may be obtained at Board of Elections, Campaign Finance Division, website at <https://elections.ri.gov/finance/index.php>. Please call (401) 222-2345 or e-mail campaign.finance@elections.ri.gov with any questions or concerns. For the purposes of this RFP RITBA asks that firm's commit to properly file all appropriate documentation prior to any contract being signed.

Major State Decision-Maker

Does any Rhode Island "Major State Decision-Maker," as defined below, or the spouse or dependent child of such person, hold (i) a ten percent or greater equity interest, or (ii) a \$5,000 or greater cash interest in this business?

For purposes of this question, "Major State Decision-Maker" means:

- (a) All general officers; and all executive or administrative head or heads of any state executive agency enumerated in R.I.G.L. § 42-6-1 as well as the

executive or administrative head or heads of state quasi-public corporations, whether appointed or serving as an employee. The phrase "executive or administrative head or heads" shall include anyone serving in the positions of president, senior vice president, general counsel, director, executive director, deputy director, assistant director, executive counsel or chief of staff.

- (ii) All members of the general assembly and the executive or administrative head or heads of a state legislative agency, whether appointed or serving as an employee. The phrase "executive or administrative head or heads" shall include anyone serving in the positions of director, executive director, deputy director, assistant director, executive counsel or chief of staff; and
- (iii) All members of the state judiciary and all state magistrates and the executive or administrative head or heads of a state judicial agency, whether appointed or serving as an employee. The phrase "executive or administrative head or heads" shall include anyone serving in the positions of director, executive director, deputy director, assistant director, executive counsel, chief of staff or state court administrator.

If your answer is "Yes," please identify the Major State Decision-Maker, specify the nature of their ownership interest, and provide a copy of the annual financial disclosure required to be filed with the Rhode Island Ethics Commission pursuant to R.I.G.L. §36-14-16, 17 and 18.

Title VI Solicitation Notice

RITBA, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises or airport concession disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

Bid Form
Invitation for Bids No. 24-04
Racon (Radar Transponder Beacon)

To: Rhode Island Turnpike and Bridge Authority
One East Shore Road
P.O. Box 437
Jamestown, RI 02835-0437

Bidder: _____
Legal name of entity

Address (street/city/state/zip)

_____/_____/_____

Contract (name/telephone/email)

1. Base Bid Price

The Bidder submits this bid proposal to perform all the work (including labor and materials) described in the solicitation for this Base Bid Price (including the costs for all Allowances, Bonds, and Addenda):

\$ _____
(Base bid price *in figures* printed electronically, typed, or handwritten legibly in ink)

\$ _____
(Base bid price *in words* printed electronically, typed, or handwritten legibly in ink)

2. Allowances

The Base Bid Price includes the costs for the following Allowances:

Not Applicable

3. Bonds

Not applicable

4. Addendum

The Bidder has examined the entire solicitation (including the following Addenda), and the Base Bid Price includes the costs of any modifications required by the Addenda.

Addendum No. 1 dated: _____

5. Contract Time

The Bidder offer to provide delivery in accordance with the timeline specified below:

- Delivery within thirty (30) days of issuance of a Purchase order (PO).

6. Liquidated Damages

Not applicable

7. Subcontractors

Bidders are required to disclose any anticipated subcontractors at the time of bid submission. Please use the form below to disclose those anticipated subcontractors and the estimated value of those subcontractors.

Name of Subcontractor	Estimated Value of Subcontract
1	
2	
3	
Total Value of Subcontracts	

This bid proposal is irrevocable for 60 days from the bid proposal submission deadline. The person signing below certifies that he or she has been duly authorized to execute and submit this bid proposal on behalf of the Bidder:

Bidder

Name of Bidder

Signature of Bidder

Printed name and title of person signing on behalf of bidder

Date signed

- END OF IFB -