**Foreign Military Sales (FMS) Checklist**

**Preparing a Letter of Request (LOR)**

**for the**

**Program Executive Office Missiles and Space (PEO M&S)**

**AN/TPQ-50 and AN/TPQ-53 Counter-Fire Target Acquisition Radar Systems**

**Dated 4 April 2025**

**** **A picture containing truck, sky, outdoor, transport

Description automatically generated**

Contact the International Program Division, PEO Missiles and Space

for assistance in completing this checklist.

|  |
| --- |
| This PEO M&S AN/TPQ-50 and AN/TPQ-53 Radar FMS Checklist will be used to capture requirements and develop an actionable Letter of Request (LOR). It should not be changed without review and agreement by all stakeholders before a Letter of Offer and Acceptance (LOA) is signed. |

Please ensure no classified information is included with the completed checklists. Classified information should be provided to your Country Program Manager through appropriate channels.

Receipt of this checklist by the US Government does not constitute an agreement to sell. Final configuration and offer of sale is subject to USG Approval.

|  |  |
| --- | --- |
| **ACRONYMS FOR THE PURPOSE OF THIS CHECKLIST:** | |
| CPM | Country Program Manager |
| C2 | Command and Control |
| CONOPS | Concept of Operations |
| CONUS | Continental United States |
| CTA | Counter Target Acquisition |
| ETM | Electronic Technical Manual |
| FMTV | Family of Medium Tactical Vehicles |
| FSR | Field Service Representative |
| IESP | International Engineering Services Program |
| IETM | Interactive Electronic Technical Manual |
| IFATDS | International Field Artillery Tactical Data System |
| IPM | International Program Manager |
| LOA | Letter of Offer and Acceptance |
| LOR | Letter of Request |
| MMR | Multi-Mission Radar |
| NC | Non-recurring Cost |
| NET | New Equipment Training |
| NTE | Not-to-Exceed |
| OCONUS | Outside the Continental United States |
| P&A | Price and Availability |
| PN | Partner Nation |
| RFI | Request for Information |
| SAMD | Security Assistance Management Directorate |
| TA | Technical Assistance |
| TM | Technical Manual |
| USASAC | U.S. Army Security Assistance Command |
| USG | U.S. Government |

|  |  |  |
| --- | --- | --- |
| **1** | **Partner and LOA General Information** | |
| 1a | Purchasing Country: |  |
| 1b | Primary Country Contact’s Name: |  |
| 1c | Primary Country Contact’s Position: |  |
| 1d | Primary Country Contact’s Title/Rank/Grade: |  |
| 1e | Primary Country Contact’s Tel: |  |
| 1f | Primary Country Contact’s Email: |  |
| 1g | Primary Country Contact’s Mailing Address: |  |
| 1h | USASAC Country Program Manager (CPM) for LOA: |  |
| 1i | Case Designator (if established): |  |
| 1j | CPM Primary Contact’s Name: |  |
| 1k | CPM Primary Contact’s Position: |  |
| 1l | CPM Primary Contact’s Title/Rank/Grade: |  |
| 1m | CPM Primary Contact’s Tel: |  |
| 1n | CPM Primary Contact’s Email: |  |
| 1o | CPM Primary Contact’s Mailing Address: |  |
| 1p | SAMD International Program Manager (IPM) for LOA: |  |
| 1q | IPM Primary Contact’s Name: |  |
| 1r | IPM Primary Contact’s Position: |  |
| 1s | IPM Primary Contact’s Title/Rank/Grade: |  |
| 1t | IPM Primary Contact’s Tel: |  |
| 1u | IPM Primary Contact’s Email: |  |
| 1v | IPM Primary Contact’s Mailing Address: |  |

|  |  |  |
| --- | --- | --- |
| **2** | **Basis of request** | **Y/N** |
| 2a | Type of Request: |  |
| 1. Request for Information (RFI) |  |
| 1. LOR for Price and Availability (P&A) |  |
| 1. LOR for Letter of Offer & Acceptance (LOA) |  |
| 2b | Is this a request for the initial procurement of the selected Radar? |  |
| 2c | Is this a request for additional Radars? |  |
| 2d | Is this a modernization or an upgrade effort? |  |

| **3** | **LOR General and/or Special Considerations** | **Y/N** |
| --- | --- | --- |
| 3a | Does the LOR address a request for a Waiver of Nonrecurring Cost (NC) Charges? If yes, provide justification: |  |
| 3b | Will this procurement be a directed source procurement? If yes, specify:  (Enclose Sole Source Request with LOR to USASAC) |  |
| i. Manufacturer: |  |
| ii. Applicable Part Number(s): |  |
| 3c | Will a special payment schedule and initial deposit be needed? |  |
| 3d | Are offsets a part of this program? |  |
| 3e | Will this case be funded through national funds? |  |
| 3f | Does the Partner Nation have a not-to-exceed budget? |  |
| 3g | Does the PN have a delivery timeline requirement? |  |

|  |  |  |
| --- | --- | --- |
| **4** | **Requested Schedule/Delivery/Transport** | |
| 4a | Desired First Unit Fielded By: | Date: |
| 4b | Are there any special transportation requirements requested? If yes, list here: | |
| 4c | Does the PN have a Freight Forwarder? If so, state: | |
| 4d | Does the PN have a Freight Forwarder that is authorized to ship classified materials? If so, state: | |
| 4e | Does the Freight Forwarder have all required Import/Export licenses? | |
| 4f | Is the Freight Forwarder registered with the US Department of State? | |
| 4g | Are there any other transportation considerations that need to be addressed? If so, state:   1. Point of Contact at location (Ship to/Mark for): 2. Location: 3. Mode of transport (air, sea, land) instructions | |

|  |  |  |  |
| --- | --- | --- | --- |
| **5** | **Hardware Requirements** | | |
| 5a | What is the anticipated Concept of Operations (CONOPS): | | |
| 5b | Environmental conditions radar is anticipated to operate in: (Threat, weather, etc.) | | |
| 5c | Anticipated Operational Time (2,080 hours max/yr.): | | |
| 5d | Interoperability Requirements: | | |
| **5.1** | **AN/TPQ-50 Counter-Fire Target Acquisition Radar System** | **Y/N** | **QTY** |
| 5.1a | AN/TPQ-50 Counter-Fire Target Acquisition Radar   * System Description: Counterfire Target Acquisition radar is a lightweight, highly mobile radar that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from rocket, artillery, and mortar indirect fire weapon systems with sufficient accuracy for first round fire for effect response. The AN/TPQ-50 system interoperates with mission command systems to provide the maneuver commander with increased counterfire radar flexibility. The AN/TPQ-50 supports operational needs via a multi-mission capability with air surveillance and counterfire target acquisition performance. The AN/TPQ-50 is deployed as part of the Fixed Site- Low, Slow, Small Unmanned Aircraft Integrated Defeat System. The system is a vital capability on today's battlefield. |  |  |
| 5.1b | AN/TPQ-50 Platform Configuration | | |
|  | 1. Mounted/Unmounted |  |  |
|  | 1. Vehicle type |  |  |
| 5.1c | Radar Configuration/Capability | | |
|  | 1. Multi-Mission Radar (MMR) |  |  |
|  | 1. Counterfire Target Acquisition |  |  |
| 5.1d | Color | | |
|  | 1. OD Green |  |  |
|  | 1. Desert Tan |  |  |
| **5.2** | **AN/TPQ-53 Counter-Fire Target Acquisition Radar System** | **Y/N** | **QTY** |
| 5.2a | AN/TPQ-53 Counter-Fire Target Acquisition Radar   * System Description: A highly mobile, counter-fire target acquisition radar organic to Brigade Combat Teams, Field Artillery Brigades, and the Division Artillery. The Q-53 is the Army’s only Long Range Counterfire Radar with both 90 and 360-degree indirect fire detection capability. The system tracks mortar, artillery, and rocket projectiles to accurately locate targets for counterfire. The system supports: 1) adjustment of friendly fire 2) location of projectiles point of impact for sense and warn. An extended range variant locates long-range precision fires. A distributed digital receiver exciter (DDREX) variant, in development, employs an innovative digital beamforming antenna architecture. |  |  |
| 5.2b | AN/TPQ-53 Platform Configuration | | |
| 1. FMTV |  |  |
| 1. Trailer |  |  |
| 1. Pallet |  |  |
| 1. Other: |  |  |
| 5.2c | Radar Configuration/Capability | | |
| 1. Multi-Mission Radar (MMR) |  |  |
| 1. Counterfire Target Acquisition |  |  |
| 5.2d | Color | | |
| 1. OD Green |  |  |
| 1. Desert Tan |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **6** | **Procurement and Integration Requirements** | **Y/N** | **QTY** |
| 6.1 | Are there any unique integration/communications requirements? If yes, state below: |  |  |
| 6.2 | Are there any unique communication capabilities being requested? If yes, state below: |  |  |
| 6.2b | U.S. Voice Radios & Data Radios? If yes, state below: |  |  |
| i. Voice |  |  |
| ii. Data |  |  |
| 6.2d | Are U.S. Radio installation kit(s) required? |  |  |
| 6.2a | Is there an Encryption or Coalition interoperability requirements? If yes, state below: |  |  |
| 6.2e | Are there Country Unique Requirements? If yes, state below: |  |  |
| 6.2f | Will an Interface System be utilized (C2/IFATDS/etc…)? If yes, state below: |  |  |
| 6.3 | Does PN require special tools to support the hardware? |  |  |
| 6.4 | Does PN require test and diagnostic equipment? |  |  |
| 6.5 | Does PN have facilities to securely store classified and unclassified hardware, software, and when not in use? |  |  |
| 6.6 | Does PN require Integrated Logistics Support (ILS) Tools? |  |  |
| 6.7 | Will PN require a spares package? |  |  |
| 1. Specify duration (years) of spares. |  |  |
| 1. Specify operational tempo for hardware. |  |  |
| 1. System Inventory and Checkout Spares |  |  |
| 6.7a | Spare Radar Control Display Unit(s) (RCDU)(System Laptop) |  |  |
| 6.7b | Batteries |  |  |
| 6.7c | Hard drives |  |  |
| 6.8 | System Mobility | Y/N | |
| 6.8a | Will the system be operating from a fixed site with no mobility requirements? |  | |
| 6.8b | Is PN requesting integration onto indigenous vehicles and trailers? |  | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **7** | **Logistics Support Requirements** | | | | | **Y/N** | **Qty** |
| 7a | Does PN require contractor Field Service Representative (FSR)? | | | | |  |  |
| 7b | Has initial and recurring support identified? (Example: Contractor TA support, calibration lab support, Depot support) | | | | |  |  |
| 7c | Does PN require basic hand tools? | | | | |  |  |
| 7d | Are there any non-standard equipment requirements non-standard? | | | | |  |  |
| **7.1** | **Maintenance Strategies** | | | | | | |
| 7.1a | What is the maintenance concept? | | | | | | |
| 7.1b | Operator Level |  | Intermediate Level |  | Depot Level | |  |
| 7.1c | What are the initial support requirements? | | | | | | |
| 7.1d | 2 Years |  | 3 Years |  | Other | |  |
| 7.1e | Is PN requesting Repair & Return services? (Y/N) | | |  | How many years Location(s)? | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **8** | **Technical Manuals / Publications** | **Y/N** | **QTY** |
| 8.1 | US Technical Manual |  |  |
| 1. Hard Copy |  |  |
| 1. Electronic Technical Manual (ETM) |  |  |
| 1. Interactive Electronic Technical Manual (IETM) |  |  |
| 8.2 | Country Unique Publications |  |  |
| 8.3 | Ruggedized Laptops for Technical Manuals (TMs) & Interactive Electronic Technical Manuals (IETMs) |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **9** | **Training Requirements** | **Y/N** | **Qty** |
| 9a | Does the LOR contain training requirements? |  |  |
| 1. Radar System Training |  |  |
| 1. Radio Training |  |  |
| 1. Generator Training |  |  |
| 1. Vehicle Training |  |  |
| 9b | What training is desired associated with the case? |  |  |
| 1. Operator Training (CONUS/OCONUS) / Level? |  |  |
| 1. Maintainer Training (CONUS/OCONUS) / Level? |  |  |
| 1. New Equipment Training (NET) / Level? |  |  |
| 1. Refresher /or/ Train the Trainer/ Level? |  |  |
| 9c | Does PN require basic trade skills training? |  |  |
| 9d | Will there be a recurring training/certification? |  |  |
| 1. Requires development of courseware? |  |  |
| 9e | Are training aides/devices/simulators needed to assist with training? |  |  |
| 9f | Does the LOR address mission planning |  |  |
| 9g | Required Familiarization Training of Host Country Operators |  |  |
| 9h | Training Assistance Field Team Training |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **10** | **Services** | **Y/N** | **Yrs.** |
| 10a | Technical Assistance – USG |  |  |
| 10b | Contractor Technical Assistance – Prime |  |  |
| 10c | Cybersecurity Technical Assistance |  |  |
| **10.1** | **Fair Share Programs** | **Y/N** | **Yrs.** |
| 10.1a | International Engineering Services Program (IESP) (minimum 3 year) |  |  |
| 10.1b | IESP Country Unique Requirements |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **11** | **Facility Construction Requirements** | **Y/N** | **Qty** |
| 11a | Are there any construction requirements? If yes, please complete below. |  |  |
| 11b | Tactical Sites |  |  |
| 11c | Maintenance / Repair / Depots |  |  |
| 11d | C2 Headquarters |  |  |
| 11e | Training Facilities |  |  |
| 11f | Requested dates for a Site Survey: |  |  |
| 11g | Site Survey Locations: |  |  |