

For the introduction of high-performance radar with SSPA technology for Korea Coast Guard ship

Request For Information

- ※ 1. Please be aware that the submitted materials will be used only as a reference in related to the introduction of high-performance radar with SSPA technology for Korea Coast Guard ships in the future.
2. The submitted materials are deemed to have been granted free use rights by the information provider so that they can be cited or referenced in project plans promoted by Korea Coast Guard

2021. 3.



Korea Coast Guard

□ Purpose

- This Request for Information (RFI) is for checking the technology status of related companies in order to introduce a high-performance radar with SSPA by replacing the magnetron radar used in ships of Korea Coast Guard(KCG).

□ Overview

○ Purpose of Project

- To improve navigational safety, surveillance and enforcement of illegal foreign fishing vessels, and maritime search and rescue capabilities by introducing new technology-applied radars to KCG ships.

○ Scope of Project(proposal)

- Project Name : Introduction of high-performance radar with SSPA technology for KCG
- Equipment quantity : SSPA type S, X band radar 00 units
- Main specifications and key functions

Spec.	Functions
Components	· SSPA type S, X band radar by ship tonnage(large, medium, small)
Performance	· Various certificates according to Notices by Korean government and International technical standards(IMO, IEC, EU-MED)
	· Linkage with Fire control(limited to corresponding ships) and navigation equipments · AI application, and next possible interlocking functions

○ Project period and Scale

- Period(undetermined) : Within about 0 months from the date of contract
 - ▶ Effective and reasonable project period will be determined through RFI
- Scale : Scheduled to calculate the appropriate project scale through technology market research and RFI

Item	Details
General Information	<ul style="list-style-type: none"> ○ Information provider status <ul style="list-style-type: none"> - History and status, management information(management performance, human resource composition, organization chart, etc.) - Company name, person in charge, address, representative contacts(phone, fax, E-mail, and others) for the head office and Korean branch(agent) - SSPA radar field business details and main technologies - Domestic and international organization and future plans related to SSPA radar - Roadmap and technical information related to SSPA radar - Delivery and service performance related to ship radar(separate SSPA and magnetron)
Implementation and Schedule	<ul style="list-style-type: none"> ○ SSPA radar standard recommendations for KCG ships <ul style="list-style-type: none"> - Technical standard recommendation items for Transceiver, antenna and display part performance - Recommended technical specification details, functions <ul style="list-style-type: none"> ※ Reference criteria : Magnetron 30KW(S band), 25KW(X band), 10KW(X band), and less than 10KW(X band) - SSPA radar development progress and completion (including verification and certification) schedule ○ Participation in project <ul style="list-style-type: none"> - Which company will participate in the announcement of domestic or foreign bidding (headquarters, Korean branch offices, agencies) <ul style="list-style-type: none"> ※ Participating company according to the bidding type(domestic, foreign) - Implementation structure and technology status of expected members, etc. ○ Schedule in consideration of each stage of implementation <ul style="list-style-type: none"> - Calculation of overall and detailed schedule - Appropriate time required for each step (design → production → delivery → installation → test)
How to get performance	<ul style="list-style-type: none"> ○ A plan to secure radar performance to enhance the capability of KCG ship mission <ul style="list-style-type: none"> - Maximum detection range improvement (over radar horizontal distance) and verification measures - Improvement of distance resolution, azimuth resolution (above technical standards) and verification plans - Improvement of accuracy of minimum detection distance and location of target(above technical standards) and verification plans - Plans to reduce reflected waves and virtual images - Implementation of interlocking function with fire control and navigation equipments ○ Direction of future revision of domestic technical standards based on magnetron radar that your company wants(applying characteristics of SSPA radar) ○ AI(Artificial Intelligence) application, and next possible interlocking functions
Required budget	<ul style="list-style-type: none"> ○ Cost of delivery of the provided H/W and completion of installation <ul style="list-style-type: none"> - H/W and installation costs - Quotations for each quantity(1 unit and multiple quantities)
Maintenance and follow-up management	<ul style="list-style-type: none"> ○ Defect repair security period and technical support details <ul style="list-style-type: none"> - Free maintenance period - Estimated annual cost for paid maintenance (including calculation method) - Domestic maintenance support organization, technical support warranty period, etc.
Etc	<ul style="list-style-type: none"> ○ Other matters related to this project <ul style="list-style-type: none"> - Educational support, technical support that can be provided - Other suggestions



How to write and submit

☐ How to write

- Filling form : Cross-section of A4 paper, free form for each provider
 - Describe based on core contents, but decide the amount by yourself

☐ Submission guide

○ Submission deadline and method

- Deadline : until 18:00 on March 12, 2021(Fri)
- How to submit : Email submission(see contact details below)
or in person

※ Direct visit information provision can be described (pre-booked)

○ Submission of documents and inquiries

- Submission : Korea Coast Guard ICT Management Division(130 Haedoji-ro,
Yeonsu-gu, Incheon, 21995, Republic of Korea)
- Inquiries(Person in charge) : Byeonghui Kim(Tel. +82-32-835-2301),
kimbh973@korea.kr

○ Miscellaneous

- Submitted documents shall not be returned, and expenses incurred in connection with the provision of information shall be borne by the information provider.
- This RFI is independent of any future bids for this project and does not guarantee direct application on this project.
- No penalty for this project in the future for companies that do not participate in this RFI