

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.
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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