Expression of Interest

Junction Boxes & Isolator Hand Change Over Switches – First of Class

20

Hunter Class Frigate Program





Acronyms and Definitions

| Abbreviation | Definition |
|--------------|---|
| AIC | Australian Industry Capability |
| ASCS | ASC Shipbuilding |
| AUD | Australian Dollars |
| BAE | BAE Systems Australia Limited |
| COTS | Commercial Off the Shelf |
| EOI | Expressions Of Interest |
| GCS-A | Global Combat Ship-Australia |
| HCFP | Hunter Class Frigate Program |
| IEC | International Electrochemical Commission |
| NATA | National Association of Testing Authorities |
| OQE | Objective Quality Evidence |
| RAN | Royal Australian Navy |
| RAP | Reconciliation Action Plan |
| T26 | British Type 26 Global Combat Ship |
| VSS | Visual Surveillance System |



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1. INTRODUCTION

ASC Shipbuilding are seeking Expressions of Interest (EOI) to supply ships with Junction Boxes and Isolator Hand Change Over Switches for the Hunter Class Frigate Program (HCFP).

ASC Shipbuilding has recently been down selected to design and build nine future frigates for the Royal Australian Navy (RAN). The BAE Systems Future Frigate offering, also known as the Hunter Class GCS-A (Global Combat Ship – Australia) is a variant of the British Type 26 GCS (T26).

The Hunter Class Frigates will be built at the ASC Shipbuilding Facility in Osborne, South Australia.

Cut Steel for Prototyping is planned for December 2020 and First of Class in December 2022. This EOI is for Junction Boxes and Isolator Hand Change Over Switches to be supplied into First of Class and is not required until approximately Quarter 4 of 2023. A Request for Tender (RFT) will be sent to down selected parties that have expressed interest closer to this time.

2. SCOPE

The purpose of the Capability Questionnaire is to establish the feasibility of prospective industrial partners to supply customised Junction Boxes for the HCFP. The Hunter Class Program will require maximisation of local content in Australia where possible.

The scope of requirements includes the supply of commercial off the shelf (COTS) parts and a level of customisation to be completed by the supplier. A summary of the parts required is below (further requirements may arise as build progresses):

- Customised low power junction boxes, lighting junction boxes, IS flood junction box utilising Wago base parts
- Customised visual surveillance system (VSS) junction boxes and lighting junction boxes utilising Weidmuller base parts
- Brand-Rex (Leviton) SNI fibre outlet points and tube flexibility points
- Captains Call Push Button Panel, Buzzer/Acceptance Unit and Junction/Relay Box
- Weidmuller 24V 28V DC Power Supply unit

The supplier shall supply all equipment necessary to carry out the customisation of each box as required.

3. VSS CUSTOMISATION REQUIREMENTS EXAMPLE

The VSS Junction Boxes provide a facility to join ship supplied services to the customer supplied cameras and ancillaries. They comprise of a COTS Weidmuller junction box and a level of customisation.

Each junction box will need to be delivered as a complete assembly.

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An example of the customisation requirements are below:

Summary of base part:

• Box drilled with maximum 4-off 20mm entries, 2-off per side face (fitted with blanking plugs)

• Fitted out with 1-off horizontal TS35 assembly rail with 10 x Wago 281-901 terminals, complete with all necessary fitting accessories onto the TAS20 support rail with SFNS5 (sliding fixing nuts and screws)

Customisation required:

2 off M20 Stainless Steel Glands EMC Glands capable of accommodating the cable described in Table 1

M6 Earth Stud for Safety Earth connection.

230v Voltage Hazard Labels, Earth Stud Identification and identification tally.

Identification of Glands see Figure 1

Cabling Details:

| Cable | | | | | Clearance Hole in mm |
|----------------------|-------|---------|-----------|-----|-------------------------|
| | Cores | Size in | Cable O/D | | |
| | | mm2 | in mm | | |
| MPRXCX(3) | 3 | 1.5 | 11.2 | M20 | 20 |
| 6145-99-891- 9422 | 3 | 1.5 | 7.1 | M20 | 20 |

4. CAPTAINS CALL PUSH BUTTON PANEL/ACCEPTANCE UNIT/JUNCTION RELAY BOX REQUIREMENTS

When the push button is pressed the Captains Call Buzzer/Acceptance Units in the Captains Dayroom & Cabin will sound and the Buzzer/Acceptance Unit will sound. The Captains Call Junction Box will contain the control relays and electrical terminals for the ships cabling.

All parts will be powered from the ships 115V, 60Hz power distribution system. All electrical components should be rated for 10Amps.

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5. PRE-QUALIFICATION QUESTIONNAIRE (GENERIC)

- 1. Does your website provide a detailed description of your Company's capability? If yes then provide the appropriate link.
- 2. Are you an Australian registered company? Provide your ABN details?
- 3. Are you an Indigenous company and registered with Supply Nation? If yes, provide a link to your profile on the Supply Nation Website or other supporting evidence.
- 4. Do you have a Reconciliation Action Plan (RAP) in place? If yes, please provide evidence.
- 5. How many Indigenous/Aboriginal/Torres Strait Islanders are employed within your organisation? Stipulate whether the employees are Full Time or Part Time.
- 6. Provide details of the company's management organisation structure and full time headcount.
- 7. State your Professional Indemnity, Product and Public Liability and Work Cover Insurance coverage.
- 8. Please state what quality certification and accreditations you hold? Please provide evidence.
- Do you hold Defence Industry Security Program (DISP) Membership? If so, state what membership level you hold.
 Refer to the DISP Presentation on the <u>Hunter Class ICN Gateway</u> for information about DISP Membership and how to apply.
- On Time Delivery Are you able to consistently provide on time guarantee service to agreed time frames?
 How do you self evaluate and analyse your performance? Do you have data / reports you could provide examples of?

6. PRE-QUALIFICATION QUESTIONNAIRE (SPECIFIC TO THE REQUIREMENTS)

- 1. Provide full details including value and location of previous major defence, maritime or commercial projects in which your company has delivered **<u>customised</u>** Junction Boxes?
- 2. Have you got the capability of customising standard parts to meet bespoke requirements?
- 3. Do you have capability to customise Junction Boxes in-house or will you need to subcontract a portion of the work. If so, provide details on any outsourced components.
- 4. Provide details of how your company can support ASC Shipbuilding's commitment to support AIC. Detail if what labour to complete the SOW will be provided by Australian permanent residents.
- 5. Provide details and location of your warehousing capability.
- 6. Do you have experience in providing Inspection Test Plans (ITP's)? Provide detail.

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- 7. Please confirm what IEC and Australian standards you comply with?
- 8. Stipulate any further competitive discriminators currently not identified.

Closing date for Expression of Interest: Friday 9th October 2020

