

**Expression of Interest:  
Provision of Insulation Supply and Installation  
Services**

**Hunter Class Frigate Program**

**Including:**

**Pre-qualification Requirements,**

**Scope of Work (High Level) and**

**Capability Questionnaire**

## Acronyms and Definitions

<b>AIC</b>	Australian Industry Capability
<b>AUD</b>	Australian Dollars
<b>BAE</b>	BAE Systems Australia Limited
<b>CDRL</b>	Contract Data Requirement List
<b>D&amp;P</b>	Design and Productionisation
<b>DISP</b>	Defence Industry Security Program
<b>EOI</b>	Expressions Of Interest
<b>EVMS</b>	Earned Value Management Systems
<b>FOC</b>	First of Class
<b>GCS-A</b>	Global Combat Ship-Australia
<b>HCFP</b>	Hunter Class Frigate Program
<b>ILS</b>	Integrated Logistic Support
<b>OQE</b>	Objective Quality Evidence
<b>RAN</b>	Royal Australian Navy
<b>RAP</b>	Reconciliation Action Plan
<b>SHE</b>	Safety, Health and Environment
<b>SOW</b>	Scope of Work
<b>T26</b>	British Type 26 Global Combat Ship

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## 1. PREFACE

ASC Shipbuilding are seeking Expressions of Interest (EOI) for Insulation Supply and Installation Services to support the Hunter Class Frigate Program (HCFP).

ASC Shipbuilding has been contracted to design and build the Royal Australian Navy's (RAN) future frigates.

The ASC Shipbuilding's 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).

Nine Hunter Class Frigates will be built at the ASC Shipbuilding Facility at the Osborne Naval Shipyard, Adelaide, SA.

The Hunter Class Program will require maximisation of local content in Australia.

Prior to commencing First of Class (FOC) in December 2022, ASC Shipbuilding will be undertaking a period of prototyping at Osborne, scheduled to commence in December 2020. This will involve building five blocks of increasing complexity within the ship design to test shipbuilding processes and systems.

The purpose of the Capability Questionnaire is to establish the feasibility of prospective industrial partners to provide Insulation Supply and Installation Services to ASC Shipbuilding across the HCFP in support of the Prototyping Design and Productionisation (D&P) phase and FOC. The information you provide within your EOI will be used to down select contractors to receive a formal Request for Tender.

## 2. PRE-QUALIFICATION REQUIREMENTS

Prospective contractors wishing to submit a response to ASC Shipbuilding's EOI are required to comply with the following to be considered compliant.

1. Acknowledgement in writing that the information contained in the EOI documentation is proprietary to ASC Shipbuilding and is made available for the recipient on the express understanding that it is to be treated as confidential for information purposes only and that it may not be copied, used or disclosed to others in whole or in part for any purpose except as authorised in writing by BAE Systems.
2. Download and update as applicable the highlighted areas of ASC Shipbuilding Non-Disclosure Agreement (NDA). Contractors are required to provide a signed PDF copy of the completed NDA along with written confirmation that all clauses have been agreed in full. Any clauses not agreed in full are required to be confirmed in writing and submitted as part of the EOI response.



EOI NDA -  
Contractor Template

3. Review and understand the requirements of the ASC Shipbuilding Pty Limited Supplier Qualification Assurance Manual available online via the following link: <https://www.baesystems.com/en-aus/our-company/about-us/our-suppliers>

### 3. SCOPE OF WORK (High Level)

Contractors wishing to submit an Expression of Interest (EOI) for the provision of Insulation Supply and Installation Services will be required to support both Prototyping and First of Class and will be solely responsible for insulating the ships structure from the external environment by installing thermal, acoustic and fire insulation across and throughout the ship in accordance with predefined design parameters. In addition contractors will be required to insulate the intake / uptakes in machinery spaces to ensure they do not pose a risk to ship's crew. On board piping systems will also require insulation with an armaflex or a similar material acting as a thermal barrier reducing the energy burden of supply machinery. These activities have only been identified to be undertaken on FOC and will not be included as part of the prototyping scope.

To support this, ASC Shipbuilding will require the successful contractors to be an active participant of a fully integrated team working together to deliver all aspects of the SOW while managing priorities with other onsite trades. A cohesive working team is essential to ensure all shipyard activities are coordinated to ensure schedules and milestones are maintained, avoid delays or unnecessary conflicts to work zones or rework to open or completed areas across the ship.

Core activities of the contractor undertaking the insulation SOW will be:

- Upfront and continuous in house engineering support,
- Day to day planning of activities in accordance with an agreed schedule,
- Management and accountability of a suitably qualified team including but not limited to:
  - Engineers
  - Naval Architects,
  - Project Managers,
  - Schedulers,
  - Planners,
  - Qualified Tradespeople.
- Cross trade compartmental ownership, working closely with others to ensure compartments are completed in accordance with the integrated schedule and specification,
- Compliance with and a thorough understanding of Lloyd's Registers Rules, SOLAS, Australian and UK Defence Standards for the marine environment,
- Supply, management and installation of all equipment and mandated materials from agreed suppliers from Procurement Packages (Procpacks) along with all applicable Contract Data Requirements (CDRL) and Objective Quality Evidence (OQE),

- Ability to install all insulation pins as detailed on engineering drawings as part of the hot work stage prior to the blocks being released for blast and paint,
- Have the capabilities to offer an external painting capability to support delivery of pre painted mandated materials prior to delivery and installation on the ship.
- An external warehouse and freight management capability for offsite storage of materials prior to being called up for installation in accordance with key plans and schedule requirements.

Contractors will be required to satisfy and comply with ASC Shipbuilding processes and procedures whilst onsite along with maintaining adherence to site, state and Commonwealth SHE standards and legislation.

Earned Value Management reporting will be a key requirement for contractors to complete. A sound knowledge and understanding of this reporting mechanism is essential with the data to be provided by the contractor having a direct link into overall HCFP reports which will be issued to and reviewed by ASC Shipbuilding’s end customer.

Contractors will be responsible for the creation and adherence to a detailed schedule which will be imbedded as part of the overall HCFP schedule. The schedule will be tracked and provide confidence to ASC Shipbuilding and the end customer that the contractor will meet its requirements for both material and labour to complete the work scope. The current plan is for the contractor to be responsible for storing all procured material offsite, delivering directly to the yard only when work fronts are available for installation on-board.

ASC Shipbuilding and the Commonwealth of Australia is committed to maximising Australian Industry Capability as part of the Project. The successful contractor will be required to provide a detailed plan for how they intend to support this requirement across the Insulation Supply and Install. This may include providing a list of alternative materials to be assessed for compliance by engineering that may support AIC maximisation.

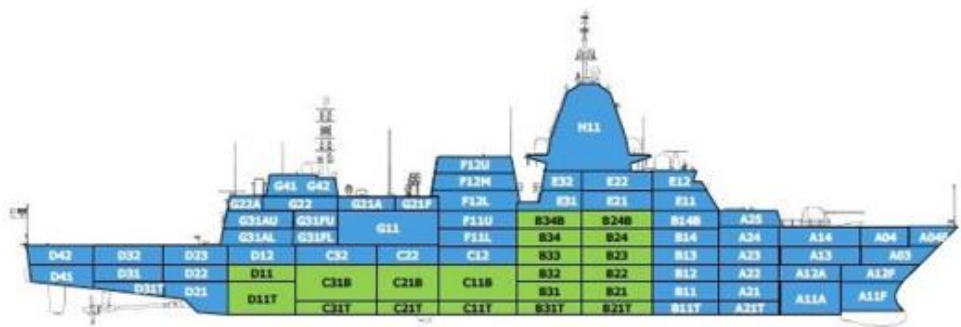


Figure 1. Hunter Class Frigate Diagram

#### 4. DESIGN AND PRODUCTIONISATION STAGE – PROTOTYPING

ASC Shipbuilding plan to establish, deliver and integrate the products, processes and enabling services needed to achieve Prototyping activities, and to fulfil the outcomes of the Hunter Class Frigate Program prior to commencing the full shipbuilding construction project.

The Prototyping phase of this program will be an integral part enabling the delivery of the Hunter Class Frigates. During the Prototyping phase, ASC Shipbuilding will be building five blocks which increase in complexity to ensure the culmination of systems, processes and production proficiency establishes quality products before FOC commences in December 2022.

ASC Shipbuilding has selected the following blocks to test the prototyping process:

Blocks: 10, 16, 03, 04 and 05.



Figure 2. Prototyping Blocks Diagram

The strategy of Prototyping is to progressively establish, install and test the production system, develop the facilities, workforce, processes and systems, in order to provide confidence that the whole enterprise is ready to commence Ship Construction and de-risk the HCFP.

In support of this, ASC Shipbuilding has identified a requirement to undertake insulation activities which will be conducted exclusively within Blocks 16 and 10. These activities will require a contractor to supply and install thermal, acoustics and fire insulation across 14 compartments as defined by ASC Shipbuilding to demonstrate the understanding and capability.

Potential contractors wishing to engage with ASC Shipbuilding initially in support of prototyping will be required to:

- Purchase linings and insulation material / products predefined by ASC engineering team.
- Supply thermal, acoustic and fire insulation pre-painted direct to the Osborne Naval Shipyard for installation on the ship.
- Comply with and install insulation in accordance with Lloyds Register Rules for each type of insulation.
- Store material offsite and deliver to the Osborne Naval Shipyard. (Note a small lay down area may be provided to support with load out activities)
- Mark out and install all pins / fixings (hot work) as required to successfully install each type of insulation ensuring compliance with Lloyd's Register Rules.
- Install Thermal insulation on the side shells of 14 compartments identified for Compartment Completion
- Install Acoustic insulation to the bulkheads and deck head in a single compartment
- Install Fire insulation in a single compartment on the Forward and Starboard bulkheads as well as the underside deckhead.
- Install Linings as required.

	<b>1 Deck</b>	<b>2 Deck</b>
<b>Full Compartment Outfit</b>	1	10
<b>Partial Compartment Outfit</b>	1	2

Figure 3. Prototyping Compartment Completion Breakdown



Figure 4. The Osborne Naval Shipyard

## 5. CAPABILITY QUESTIONNAIRE

1. Are you a 100% Australian Owned company? ABN details to be provided.
2. Will your company require engaging in any joint ventures or alternative contracting models to complete the SOW? Details to be provided.
3. Are you an Indigenous company?
4. Do you have a Reconciliation Action Plan (RAP) in place?
5. Provide details of the company’s management organisation structure along with providing a proposed organisation structure that would be utilised to support your offering to complete the SOW.
6. How many full time (permanent) employees does your company currently employ? Please provide a location and qualification breakdown for your workforce.
7. Do you have a full time Project Co-Ordinator and detailed planner currently working in your organisation and are they available to be imbedded into the team located at Osborne full time?
8. Provide details on the number of certified engineers, naval architects and trades people within your organisation including qualifications and years of experience working on marine and defence insulation projects.
9. How many of these employees hold a current Australian security clearance and to what level? Please specify details.



10. Please provide details on the number of Indigenous/Aboriginal/Torres Islander employees within your organisation? (Stipulate whether employees are Full Time or Part Time)
11. Provide full details including value and location of previous major defence, maritime or commercial projects where your company has completed the supply and installation of insulation work scopes. A detailed overview of each project is required.
12. Stipulate all current and future projects that your company has any involvement in until 2026.
13. Provide annual turnover in AUD.
14. State Professional Indemnity, Product and Public Liability Insurance coverage. Copies of certificates to be provided.
15. State Marine Liability and Marine Products liability insurance or advise if included as part of above policies. Copies of certificates to be provided.
16. State and provided copies of acquired company certification and accreditation.
17. Do you hold a current DISP membership? Confirm level of membership and years held.
18. Confirm that your organisation has the capability and a clear understanding of the complexities of the High Level SOW provided in the Expression of Interest advising any areas of non-compliance.
19. Does your company have previous experience with supplying insulation materials (Thermal, Acoustic, Fire, Linings, Adhesives, etc.) from customer mandated suppliers? Examples to be provided.
20. Do you have South Australian warehouse capabilities to safely store materials offsite along with the ability to delivery to the yard only when required as per an agreed schedule?
21. Do you have an external capability to source an approved acrylic paint and apply it to a specified quantity of armaflex and cloth insulation prior to delivery to Osborne? This material would be used in situations where the insulation is visible within a compartment.
22. Do you have a clear understanding of the requirements for providing CRDLs, ILS and OQE documentation? Please provide examples of experience.
23. Provide details of how your company can support ASC Shipbuilding's commitment to AIC. Confirm that all labour to complete the planned SOW will be provided by Australian permanent residents. Detail any areas based on your knowledge and previous experience with Insulation work scopes where you see that ASC Shipbuilding could potentially look to maximise its AIC opportunities.
24. Provide details of previous projects your company has completed Earned Value Management reporting.
25. Provide details of three separate references for your company from previous Marine Insulation projects preferably from the defence sector.
26. Stipulate any further competitive discriminators currently not identified including how your organisation would collaborate as a team sharing data, schedules and resources if required to ensure best for program outcomes are achieved.

**Closing date for expression of interest:**  
**4.00PM ACST on Friday 17<sup>th</sup> April 2020**