



BAE SYSTEMS

**Expression of Interest:
Provision of Blast and Paint Services
Hunter Class Frigate Program**

Including:

Pre-qualification Requirements,

Scope of Work (High Level) and

Capability Questionnaire

ASC SHIPBUILDING – IN – CONFIDENCE

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Acronyms and Definitions

AIC	Australian Industry Capability
AUD	Australian Dollars
BAE	BAE Systems Australia Limited
B&P	Blast and Paint
CUF	Common User Facility
D&P	Design and Productionisation
DISP	Defence Industry Security Program
EOI	Expressions Of Interest
EVMS	Earned Value Management Systems
FOC	First of Class
GCS-A	Global Combat Ship-Australia
HCFP	Hunter Class Frigate Program
NDE	Non Destructive Examination
OQE	Objective Quality Evidence
RAN	Royal Australian Navy
RAP	Reconciliation Action Plan
SHE	Safety, Health and Environment
SOW	Scope of Work
SQAM	Supplier Quality Assurance Manual
T26	British Type 26 Global Combat Ship



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1. PREFACE

ASC Shipbuilding are seeking Expressions of Interest (EOI) to supply Blast and Paint Services for the Hunter Class Frigate Program (HCFP).

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

The ASC Shipbuilding 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 Blast and Paint 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. Acknowledge 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 as part of the EOI response.

3. SCOPE OF WORK (High Level)

Contractors will be required to provide Blast and Paint services and achieve the appropriate standards of completion in line with the high level scope of work detailed below:

3.1 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 (HCFP) 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 (HCF). 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 First of Class (FOC) commences in December 2022.

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

Blocks: 10, 16, 03, 04 and 05. The total surface area for the five blocks combined is: approx. 29500m²



Figure 1. 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.

As a result, all prototype blocks will be required to undertake various levels of outfitting with specific levels of completion to be identified for each compartment. Contractors will be required to understand the requirements of each compartment once finalised and complete all activities in line with the nominated standards whilst working to the detailed build schedule. The completed compartments will then be subject to acceptance by ASC Shipbuilding and the Commonwealth of Australia with compliant OQE submitted.

ASC Shipbuilding has defined the blast and paint work scope to support Prototyping as requiring Contractors to successfully:

- Blast and Paint all plates and sections through the new plate treatment line located at the Osborne Naval Shipyard (Building 20 of the new facility) in accordance with defined paint specification. Black steel plates and profiles will be delivered to the yard with the contractor being responsible for handling, processing through the facility, operating and maintaining all equipment to ensure optimum outputs are achieved.
- Post application, plates are to be marked with the Catalogue and Traceable Identification Number as a minimum. Exact marking method is still to be agreed. Stripe coating of all butt, stiffener and other welds as panels are completed or through the PO1 (Hot Work pre-outfitting) Stage (and QC cleared). Application to occur within Building 21 of the new facility.
- Manual requirement for contractor to apply a single coat of primer over completed welds in order to reduce the start of corrosion on all

components while they are in storage and/or prior to them being fitted to the Ship.

- Application to be completed before the welds are exposed to external weather elements and once all welds have been inspected for conformance, NDE undertaken and OQE being cleared.
- Upon completion of the stripe holding primer application, any bare metal identified to be in the "no weld" zones requires to be suitably protected to prevent the commencement of surface corrosion.
- Blast and paint (as required) all five prototype blocks through the Block Blast and Paint facility located within Building 18 of the new facility at the Osborne Naval Shipyard.
 - Apply specified paint schemes in line with manufacturers and ASC supplied specification for both internal and external areas.
 - Project manage the entire operation within the chamber including, material supply, access and containment in order to provide back to ASC a completed block within the defined schedule duration. ASC will be responsible for transporting Blocks to and from chamber.
 - Provide all staging/access within the Blast and Paint Chamber to facilitate safe execution of all activities.
- Prepare and paint all consolidation joints post Block consolidation.
- Complete final compartment completion paint schemes as specified and in line with the schedule whilst the blocks are being consolidated within Building 22 of the new facility or on the CUF.
 - Access for undertaking activities at nominated locations is currently scheduled to be provided by ASC Shipbuilding with the exception of the Blast and Paint Chamber as noted above.
- Apply specified antifoul paint systems and final exterior coats as required.
- Complete any Touch ups or rework as required.
- Blast and paint miscellaneous small parts through the Small Parts Blast and Paint facility within Building 03 of the new facility.
 - Contractor to project manage and own facility in order to complete required tasks. Contractor will be responsible for maintaining quality, SHE and schedule adherence.
- Safely operate, maintain and repair at cost if damaged, the equipment associated with the Blast and Paint Chambers and Plate Treatment Line to ensure optimum outputs are maintained.



Figure 2. The Osborne Naval Shipyard

3.2 Batch 1 – First of Class

ASC Shipbuilding advises contractors that blast and painting requirements and methodologies for FOC would be similar to that tested and planned for implementation during prototyping. However, the requirements will have increased complexity, workloads and capacity requirements in order to maintain planned production schedules. FOC will require the consolidation of 22 individual blocks with an approx. paint area of 90,000-100,000m².

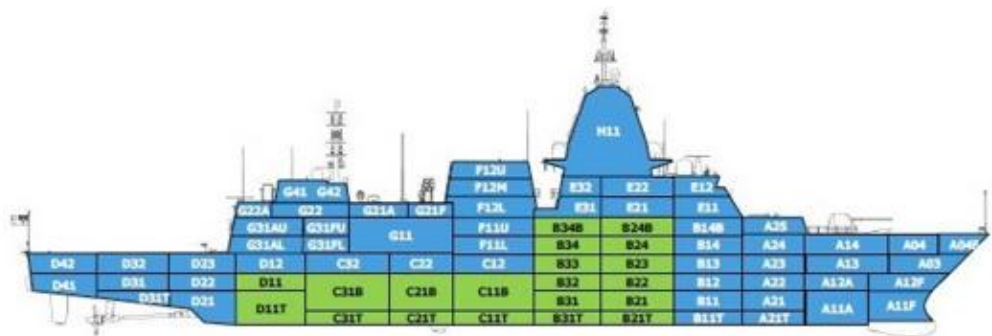


Figure 3. Hunter Class Frigate Diagram

3.3 General Requirements

ASC Shipbuilding will require contractors to be able to successfully project manage and resource suitably qualified marine painters and inspectors.

Contractors would be required to supply, store and dispose correctly of all paint, blast media and consumables in order to successfully complete nominated activities outlined in the SOW.

Contractors are responsible for providing and maintaining all access/staging requirements within Buildings 18 and 03.

ASC Shipbuilding requires contractors to become an active participant of a fully integrated team working alongside ASC Shipbuilding and other onsite contractors. A cohesive working team is essential to ensure all shipyard activities are coordinated with planned schedules maintained to achieve milestones, avoid delays or unnecessary conflicts and rework to open or completed work fronts.

Contractors will be required to satisfy and comply with ASC Shipbuilding processes and procedures at all-time whilst onsite while maintaining adherence to site, state and government SHE requirements and standards.

A sound knowledge in EVMS reporting will be required. Weekly reporting requirements are expected and will have a direct link into HCFP reports issued and reviewed by the end customer.

4. **CAPABILITY QUESTIONNAIRE**

1. Are you an Australian Owned company?
2. Will your company require engaging in any joint ventures or alternative contracting models to complete the SOW. Details are to be provided if applicable including combined \$ Turnover and Employee Numbers.
3. Are you an Indigenous company?
4. Do you have a Reconciliation Action Plan (RAP) in place?
5. Please provide details on the number of Indigenous/Aboriginal/Torres Islander employees within your organisation? (Stipulate whether employees are Full Time or Part Time)
6. Provide details of the company's management organisation structure.
7. How many full time (permanent) employees does your company currently employ?
8. How many of these employees hold a current Australian security clearance and to what level? Please specify details.
9. Do you have a full time Project Co-Ordinator currently working in your Organisation?
10. Provide details on the number of certified inspectors and highest level of qualification / training completed.
11. State Professional Indemnity, Product and Public Liability Insurance coverage.
12. State Marine Liability and Marine Products liability insurance or advise if included as part of above policies.
13. State acquired company certification and accreditation.
14. Do you hold a current DISP membership? Confirm level of membership your organisation holds.
15. Provide full details including value and location of previous major defence, maritime or commercial projects in which your company has delivered blast and paint services within Australia. Detailed overview required.
16. Stipulate all current and future projects that your company has any involvement in until 2026.

17. Provide details of three separate references for your company.
18. Confirm blast and paint services detailed within the scope of work can be met by your organisation and successfully undertaken at the Osborne Naval Shipyard, South Australia. Scope including but not limited to:
 - a. Plate Line Facility (plate and profiles)
 - b. Stripe Coating of Welds
 - c. Blast and Paint Chamber
 - d. Block Outfit Hall
 - e. Hard Stand
 - f. Alongside the wharf (post launch)
 - g. Small Parts Chamber
19. Do you have the capability to supply all materials (paint, blast media, access and containment and other consumables) required to complete the high level SOW. Provide brief details.
20. Do you have South Australian warehouse capabilities to safely store paint, blast media and other equipment offsite?
21. Provide details of how your company can support ASC Shipbuilding's commitment to support AIC. Detail if the labour to complete the task will be provided by Australian permanent residents.
22. 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 for best for program outcomes are achieved.

Closing date for Expression of interest:

4.00PM ACST on Friday 13th September 2019