



Expression of Interest

Manufacture of Cast Valve Components

Hunter Class Frigate Program

Acronyms and Definitions

Abbreviation	Definition
AIC	Australian Industry Capability
AUD	Australian Dollars
BAEMA	BAE Systems Maritime Australia
DISP	Defence Industry Security Program
EOI	Expressions Of Interest
GCS-A	Global Combat Ship-Australia
HCFP	Hunter Class Frigate Program
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

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1. INTRODUCTION

BAE Systems Maritime Australia (BAESMA) has been selected as the preferred tenderer 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 (HCF) will be built at the BAE Systems Maritime Australia facility in Osborne, South Australia. The program requires maximisation of Australian Industry capability.

BAE Systems Maritime Australia is committed to supporting Australian Industry and increasing its capability to support the HCFP.

At the conclusion of this EOI process, BAESMA reserves the right to proceed, or not, with further procurement activity such as a RFQ/T.

2. SCOPE

BAE Systems Maritime Australia are seeking Expressions of Interest (EOI) in order to determine the capability of Australian Foundries to manufacture and supply cast valve bodies and components to the Hunter Class Frigate Program (HCFP).

The results of the EOI will be shared with BAESMA's preferred Valve Supplier and Integrator and they will utilise this information to aid their Australian Industry Capability obligations.

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

3. EQUIPMENT SCOPE OF SUPPLY

The purpose of the EOI is to establish if Australian Foundries have the capability to cast valves bodies and components to the required specifications (including Lloyd's rules).

The making of patterns, cores for moulding of valve bodies and components may be obtained from participating Valve OEMs or from own designs provided via the preferred Valve Supplier and Integrator.

In addition to the above, this EOI will also identify where industry may need to enhance capability to be able to cast the required components for the HCFP.

There are many hundreds of valves per ship across 30 different valve types including 400 actuated valves and there are 9 ships in the build program. Therefore this EOI is looking for opportunities for a long-term collaboration to produce castings for Australian shipbuilding and where required increasing industry capability.

The below Table provides examples of the valve types, size ranges and basic requirements, for indication purpose only and is not a full list as well as full requirement.

Type	Size	Material	Classifications
Butterfly	80-300 NB	Nickel Aluminium Bronze; Carbon Steel; Stainless Steel	Lloyds Approved Foundry, Shock Classification 1 or 2
3 Way Ball	15-200NB	Nickel Aluminium Bronze; Carbon Steel; Stainless Steel	Lloyds Approved Foundry, Shock Classification 2 or 3
Ball with Characterised Seat	8-150NB	Nickel Aluminium Bronze; Carbon Steel	Lloyds Approved Foundry, Shock Classification 1 or 2
Ball	8-80NB	Nickel Aluminium Bronze; Carbon Steel; Stainless Steel	Lloyds Approved Foundry, Shock Classification 1 or 2
3 Way Plug	50-125NB	Stainless Steel; Carbon Steel	N/A
Air Vent Head	50-200NB	Aluminium Alloy	N/A
Double Block and Bleed	8-32	Stainless Steel	Lloyds Approved Foundry, Shock Classification 1
Double Regulating Valve	15-40	Bronze	Shock Classification 2
Quick Close Gate	25-100	Stainless Steel	Lloyds Approved Foundry, Shock Classification 2
Hydrant	50	Nickel Aluminium Bronze	Shock Classification 1
Needle	8-10	Nickel Aluminium Bronze; Stainless Steel	Lloyds Approved Foundry, Shock Classification 1
Non Return	8-150	Nickel Aluminium Bronze; Carbon Steel; Stainless Steel	Lloyds Approved Foundry, Shock Classification 1 or 2
Storm NRV	50-200	Nickel Aluminium Bronze;	Lloyds Approved Foundry, Shock Classification 1

Notes:

- The above table provides generic and brief valve descriptions, material types and other items that make up the valve requirement.
- Valve Package, individual components and assemblies, shall comply with the applicable requirements within Lloyds Register Lloyds Naval Ships Rules (LR NSR) 2014 (TBA).
- Where valve is to be manufactured under LR NSR approved Foundries; the valve is to be supplied with appropriate certification such as LR NSR Material Certification and traceability as applicable to the valve duty.
- Valve casting components manufacturer shall be responsible for ensuring their products meet all components and system tests requirement for complete valve assemblies at later stages including the shock test.
- Where valve types are used as hull valves, they shall have a resistance coefficient (K) no greater than 1 when fully open.
- Where valve types (e.g. Flanged Swing Check Non-Return Valves) are used on seawater systems, they shall have a resistance coefficient (K) no greater than 0.3 when fully open and shall have a critical flow velocity of no greater than 2.0 m/s.

4. REQUIRED SUPPLIER CAPABILITIES

The capability sought is to ensure the cast valve components meet all of the requirements of the HCFP. The equipment needs to have internationally recognized certification, enabling potential future export to UK, EU and Canada.

Expected supplier capabilities include but are not limited to:

- ISO 9001:2015 Approved;
- Experience and capability in the design, manufacture, testing and assembly of mouldings for valves;
- Experience of sourcing certified raw material used in casting;
- Previous experience and application of Lloyds Register Rules and Regulations for the Classification of Naval Ships and Lloyds Register Rules for the manufacture, Testing and Certification of Materials; and
- Documented material control and traceability procedures for in-house and sub-supplier manufacture.
- Be able to deliver complete scope;
- Be able to demonstrate supply chain integrity;

5. INFORMATION FOR INCLUSION IN THE EOI

The information you provide in your EOI will be used to establish the feasibility of prospective industrial collaborators to potentially cast valve components for the HCFP. Following a review of the information provided in the EOI, shortlisted organisations may be invited to provide a response to a Request for Proposal (RFP). This RFP maybe generated by BAESMA or the Valve Supplier Integrator.

The other purpose is for BAE Systems Maritime Australia to identify and develop AIC investment proposals that are in conjunction with the Commonwealth's strategic priorities.

For the EOI to be considered complete, the following information must be provided:

6. PRE-QUALIFICATION QUESTIONNAIRE (GENERIC)

1. Are you an Australian registered company? Provide ABN details.
2. Does your website provide a detailed description of your Company's capability? If yes then provide the appropriate link. If no, provide capability statement. If there is a shortfall, please clearly articulate what the shortfall is and what action your organisation intends to take and the timeframe for that action
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.

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5. How many Indigenous/Aboriginal/Torres Strait Islanders are employed within your organisation? Stipulate whether the employees are Full Time or Part Time.
6. Do you hold Defence Industry Security Program (DISP) Membership? If so, please state what membership level you hold.
Refer to the [DISP Webpage](#) on information regarding DISP Membership and how to apply.
7. Provide details of the company's management organisation structure and full time headcount.
8. State your Professional Indemnity, Product and Public Liability and Work Cover Insurance coverage.
9. Please state and provide evidence of the relevant certifications and accreditations held.
10. 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? Provide examples.

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

1. Full details of previous major defence, maritime or commercial projects in which your company has delivered castings;
2. Previous experience and track record in supplying castings;
3. Examples of castings produced in your facility; including size ,weight and composition;
4. Examples of the testing performed on the castings produced and the testing experience and capability in your facility
5. Evidence on how you maintain material traceability in you facility from raw product to finished product.
6. Evidence on how you obtain raw material and how you ensure the integrity of the raw material.
7. Experience and application of Lloyds Register Rules and Regulations for the Classification of Naval Ships;
8. Confirmation of the types of castings your current facility can produce;
9. Confirmation of the materials and quantities your organisation can produce;
10. Examples of moulds for castings produced and used in your facility;
11. Current locations of factories and capabilities;
12. Any further competitive discriminators that have not been identified in the answers to previous questions; and

Please ensure you updated your ICN company profile with the your trading name, contact details, website, ABN, number of employees, annual turnover, export details (if applicable) and ANZSIC codes. This information may be used in assessing this EOI.

8. CLOSING DATE FOR EOI RESPONSES

The closing time of this EOI is at midnight (Australian Central Standard Daylight Saving Time) on 15th April 2021

9. ADDITIONAL INFORMATION AND CONTACT DETAILS

For any additional information please contact:

Brian Condon

Quality Manager Australian Industry Capability

BAE Systems Maritime Australia

T: +61 434 315 349 | M: +61 434 315 349 | E: brian.condon@baesystems.com