



# **Expression of Interest: GRP Ladders**

## **Hunter Class Frigate Program**

**Including:**

**HCFP – GRP Ladders**

**Capability SOW & Questionnaire**

**BAE SYSTEMS – IN – CONFIDENCE**

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## Acronyms and Definitions

<b>BAE</b>	BAE Systems Australia Limited
<b>EOI</b>	Expressions Of Interest
<b>HCFP</b>	Hunter Class Frigate Program
<b>RAN</b>	Royal Australian Navy
<b>GCS-A</b>	Global Combat Ship-Australia
<b>T26</b>	British Type 26 Global Combat Ship
<b>RAP</b>	Reconciliation Action Plan
<b>AUD</b>	Australian Dollars
<b>GRP</b>	Glass Reinforced Plastic

Including Capability SOW / Questionnaire



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## 1. SCOPE

BAE Systems are seeking Expressions of Interest (EOI) to supply ships with GRP Ladders for the Hunter Class Frigate Program (HCFP).

BAE has recently been down selected to design and build the Royal Australian Navy's (RAN) future frigates.

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 at Osborne, Adelaide, SA.

The purpose of the Capability Questionnaire is to establish the feasibility of prospective industrial partners to provide GRP Ladders to BAE Systems for the HCFP.

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

Suppliers will be responsible to provide a ship set of GRP ladders ranging from 0.9m to 4.375m in length.

Due to possible modifications with the GRP Ladders and with numbers required, the requirements may be subject to change and therefore may be reassessed before the placement of the final contract.

The Supplier should also submit a costed option for safety hoops, which will be required in line with current legislation for working at height. This legislation requires the use of hoops on ladders over 2m in length. The hoops should also be provided with a comprehensive weight matrix.

BAE Part Name.	Length of stringer (m)	No. Off
LADD0001	2.58	2
LADD0046	2.7	6
LADD0059	1.2	1
LADD0065	0.9	4
LADD0TBC	2.4	1
LADD0TBC	2.3	2
LADD0TBC	2.1	2
LADD0TBC	3.0	3
LADD0TBC	3.2	1
LADD0TBC	4.375	1
<b>Total Ladders Required</b>		<b>23</b>

Suppliers will be required to provide evidence of previous GRP Ladders supply and innovative solutions that can be applied to benefit the HCFP.

**Further Requirements:**

GRP Ladders shall be fitted in accordance with the manufacturer's instructions to a yard supplied interface. The GRP Ladders shall be easy to remove and reinstall or where necessary replace, without affecting the performance of the ladder. The GRP weather deck ladders shall be selected with consideration to weight, cost and the Radar Cross Section (RCS).

The GRP lugs (if applicable) with which the ladders are to be fixed to the bulkheads, shall be supplied by the manufacturer of the ladders and fabricated from GRP. The steel brackets on the bulkhead that the GRP ladder or lugs will bolt to, will be of shipbuilder's supply. The ladder installation will be carried out by the purchaser.

The Ladders should also:

- Be manufactured from GRP Square Hollow Section.
- Be supplied with suitable end caps.
- Have fixing holes left off, for BAE to drill to suit at location.
- Be supplied in a finish that is:
  - Prepared and painted Light Weatherwork Grey, BS381C No 676, using a Wapaint approved product in accordance with BRd 3939 and T26 Master Décor scheme T26-0000035751.
  - Hardwearing and fit for purpose.
- Incorporate rungs that should have a non-slip surface on top, or be non-slip by design.
- Be finished with notation denoting both Top and Bottom to avoid confusion when fitting.
- Have all burrs and sharp edges removed.
- The manufacturer should state what they believe to be the maximum loading/number of persons able to use the ladder at any one time.
- As BAE would be drilling to fit at ship, the manufacturer would have to make clear where any internal stiffening is located to prevent drilling in the wrong places.
- No metal pigmentation or parts shall be incorporated onto or in the surface of the ladders, to prevent RADHAZ (Radiation Hazard) and keep RCS levels to a minimum.
- The ladders shall be as lightweight as they reasonably can, without compromising the structural integrity or strength of the ladders.
- The stringers shall be either watertight or have drainage facilities to prevent water traps forming.
- Any Internal reinforcement shall be identified by way of markings on the stringers.
- The GRP composite shall be approved by the Purchaser.

**2. PRE-QUALIFICATION QUESTIONNAIRE**

1. Provide full details of previous major defence, maritime or commercial projects in which your company has delivered GRP ladders.
2. Provide details of the company's management organisation structure.
3. Are you an Australian-owned company?
4. Are you an Indigenous company?
  - a. If so, how many Indigenous employees do you have?
  - b. Do you have a Reconciliation Action Plan (RAP) in place?
5. How many full time (permanent) employees are currently employed by your company?
6. How many full time (permanent) employees are indigenous?
7. Provide your annual turnover in Australian Dollars (AUD).
8. State acquired company certification and accreditations.
9. Have you worked on defence contracts before?
10. Do you have previous experience in supplying GRP Ladders in Australia?
11. Stipulate any further competitive discriminators that have not been identified in the answers to previous questions.

**Closing date for Expression of interest:****4.00 p.m. Friday 31 May 2019**