

Expression of Interest

Gaskets

Hunter Class Frigate Program



Acronyms and Definitions

Abbreviation	Definition
AFFF	Aqueous film forming foam
AIC	Australian Industry Capability
ASCS	ASC Shipbuilding
BAE	BAE Systems Australia Limited
BS 7531	British Standard 7531:2006 – rubber bonded fibre jointing for industrial and aerospace purposes
BS EN 1514-1	BS EN 1514-1:1997 – flanges and their joints – Dimensions of Gaskets for PN designated flanges
DW	Distilled Water
EOI	Expressions Of Interest
FF	Full Face
FW	Fresh Water
GCS-A	Global Combat Ship-Australia
HCFP	Hunter Class Frigate Program
IBC	Inside Bolt Circle
NAF	Non Asbestos Fibre
NRNR	Non Reinforced Nitrile Rubber
OQE	Objective Quality Evidence
PN	Nominal Pressure
PW	Potable Water (Drinking Water)
RAN	Royal Australian Navy
RAP	Reconciliation Action Plan
RNC	Rubberised Nitrile Cork
SW	Sea Water
T26	British Type 26 Global Combat Ship



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ASC SHIPBUILDING

1. INTRODUCTION

ASC Shipbuilding are seeking Expressions of Interest (EOI) to supply ships with Gaskets for the Hunter Class Frigate Program (HCFP).

ASC Shipbuilding has 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. The program requires maximisation of Australian content.

2. SCOPE & REQUIREMENTS

The purpose of the Capability Questionnaire is to establish the feasibility of prospective industrial partners to provide a selection of gaskets to ASC Shipbuilding for the HCFP including:

- Gaskets for Auxiliary Systems
- Gaskets for Exhaust Gasses
- Nonstandard gaskets

Gaskets are generally to be purchased pre-cut and shall meet the requirements of Lloyds Register Rules and Regulations for Classification of Naval Ships.

3. PARTS

The range of gaskets required are listed in the table below. All acronyms are listed in the above 'Acronyms and Definitions' Table.

Gaskets for Auxiliary Systems:

No	Equipment Description	Supplier Catalogue Ref No/ Material Type & Standard	Recognised 'Standard Number'/ Rated pressure	Fluid Type
1	FF NTRL RUB CRK_10 DN_14_4_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
2	FF NTRL RUB CRK_15 DN_14_4_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
3	FF NTRL RUB CRK_20 DN_14_4_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
4	FF NTRL RUB CRK_25 DN_14_4_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
5	FF NTRL RUB CRK_32 DN_18_4_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
6	FF NTRL RUB CRK_40 DN_18_4_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
7	FF NTRL RUB CRK_50 DN_18_4_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
8	FF NTRL RUB CRK 65DN -18x4	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW



9	FF NTRL RUB CRK_65 DN_18_8_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
10	FF NTRL RUB CRK_80 DN_18_8_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
11	FF NTRL RUB CRK_100 DN_18_8_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
12	FF NTRL RUB CRK_125 DN_18_8_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
13	FF NTRL RUB CRK_150 DN_22_8_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
14	FF NTRL RUB CRK_200 DN_22_12_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
15	FF NTRL RUB CRK_250 DN_26_12_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
16	FF NTRL RUB CRK_300 DN_26_12_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW
17	FF BSEN 1514-1_10 DN_14_4_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
18	FF BSEN 1514-1_15 DN_14_4_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
19	FF BSEN 1514-1_20 DN_14_4_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
20	FF BSEN 1514-1_25 DN_14_4_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
21	FF BSEN 1514-1_32 DN_18_4_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
22	FF BSEN 1514-1_40 DN_18_4_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
23	FF BSEN 1514-1_50 DN_18_4_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
24	FF Gasket 65DN 4holes Pn16 NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
25	FF BSEN 1514-1_65 DN_18_8_NAJ [8 holes]	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
26	FF BSEN 1514-1_80 DN_18_8_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
27	FF BSEN 1514-1_100 DN_18_8_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
28	FF BSEN 1514-1_125 DN_18_8_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
29	FF BSEN 1514-1_150 DN_22_8_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
30	FF BSEN 1514-1_200 DN_22_12_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
31	FF BSEN 1514-1_250 DN_26_12_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
32	FF BSEN 1514-1_300 DN_26_12_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF



Gaskets for GRE Flanges:

No	Equipment Description	Supplier Catalogue Ref No/ Material Type & Standard	Recognised 'Standard Number'/ Rated pressure	Fluid Type
33	FF NON REINF_50 DN_18_4_NTRL RU	N.R.N.R./ BS 2751	EN1514-1/BS1092 16Bar	SW&FW
34	FF NON REINF_80 DN_18_8_NTRL RU	N.R.N.R./ BS 2751	EN1514-1/BS1092 16Bar	SW&FW
35	FF NON REINF_100 DN_18_8_NTRL RU	N.R.N.R./ BS 2751	EN1514-1/BS1092 16Bar	SW&FW
36	FF NON REINF_125 DN_18_8_NTRL RU	N.R.N.R./ BS 2751	EN1514-1/BS1092 16Bar	SW&FW
37	FF NON REINF_150 DN_22_8_NTRL RU	N.R.N.R./ BS 2751	EN1514-1/BS1092 16Bar	SW&FW
38	FF NON REINF_200 DN_22_12_NTRL RU	N.R.N.R./ BS 2751	EN1514-1/BS1092 16Bar	SW&FW
39	IBC_10 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
40	IBC_15 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
41	IBC_20 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
42	IBC_25 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
43	IBC_32 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
44	IBC_40 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
45	IBC_50 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
46	IBC_65 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
47	IBC_80 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
48	IBC_100 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
49	IBC_125 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
50	IBC_150 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
51	IBC_200 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
52	IBC_250 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
53	IBC_300 DN_NA_NA_NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	SW/OIL/PW/GAS/AFFF
54	Gasket IBC 350DN 16Bar NAJ	N.A.F./ BS 7531	EN1514-1/BS1092 16Bar	OIL
55	IBC_10 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
56	IBC_15 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF



57	IBC_20 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
58	IBC_25 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
59	IBC_32 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
60	IBC_40 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
61	IBC_50 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
62	IBC_65 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
63	IBC_80 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
64	IBC_100 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
65	IBC_125 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
66	IBC_150 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
67	IBC_200 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
68	IBC_250 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
69	IBC_300 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF
70	IBC_350 DN_NA_NA_RUB CRK	R.N.C./BS 2F 66	EN1514-1/BS1092 16Bar	SW/OIL/DW/AFFF

Remaining Gaskets:

No	Equipment Description	Supplier Catalogue Ref No/ Material Type & Standard	Recognised 'Standard Number'/ Rated pressure	Fluid Type
71	Gasket IBC PN63 25DN BS1092-1	BS 7531/ N.A.F	EN 1514-1/ Flange BS1092/PN100	Lube oil, Gas
72	Gasket IBC PN63 32DN BS1092-1	BS 7531/ N.A.F	EN 1514-1/ Flange BS1092/PN100	Lube oil, Gas
73	Gasket IBC PN63 40DN BS1092-1	BS 7531/ N.A.F	EN 1514-1/ Flange BS1092/PN100	Lube oil, Gas
74	IBC Gasket 80DN High Temp	KLINGER milam-PSS/ KLINGER FERROFLEX SP-AFII	16Bar BS1092-1/ BS7531	N/A
75	IBC Gasket 65DN High Temp	KLINGER milam-PSS/ KLINGER FERROFLEX SP-AFII	16Bar BS1092-1/ BS7531	N/A
76	IBC Gasket 40DN PN6 High Temp	KLINGER milam-PSS/ KLINGER FERROFLEX SP-AFII	16Bar BS1092-1/ BS7531	N/A



77	M12 Low Temp Washer M3	N.A.F./ BS 7531	N/A	N/A
78	M16 Low Temp Washer M3	N.A.F./ BS 7531	N/A	N/A
79	1.5x200x100 Low Temp Gasket M3	N.A.F./ BS 7531	N/A	N/A
80	1.5x205x110 Low Temp Gasket M3	N.A.F./ BS 7531	N/A	N/A
81	1.5x210x120 Low Temp Gasket M3	N.A.F./ BS 7531	N/A	N/A
82	1.5x220x145 Low Temp Gasket M3	N.A.F./ BS 7531	N/A	N/A
83	1.5x230x155 Low Temp Gasket M3	N.A.F./ BS 7531	N/A	N/A
84	1.5x245x179 Low Temp Gasket M3	N.A.F./ BS 7531	N/A	N/A
85	1.5x270x190 Low Temp Gasket M3	N.A.F./ BS 7531	N/A	N/A
86	M12 High Temp Washer M3	KLINGER FERROFLEX SP-AFII	N/A	N/A
87	1.5x290x205 High Temp Gasket M3	KLINGER FERROFLEX SP-AFII	N/A	N/A
88	130x100x2 Weather Gasket M6	N.R.N.R./ BS 2751	N/A	N/A
89	121x91x2 Weather Gasket M6	N.R.N.R./ BS 2751	N/A	N/A
90	Sprayer Adaptor OD90 Gasket	R.N.C./BS 2F 66	N/A	N/A
91	Gasket OD210xID100 for mast pen M7A	N.R.N.R./ BS 2751	N/A	N/A
92	Gasket M7A (M7B) Mast Pen OD240xID130	N.R.N.R./ BS 2751	N/A	N/A
93	Gasket OD265xID155 for M7B pens	N.R.N.R./ BS 2751	N/A	N/A
94	Gasket OD290xID180 for M7B pens	N.R.N.R./ BS 2751	N/A	N/A
95	Gasket OD320xID208 for M7B pens	N.R.N.R./ BS 2751	N/A	N/A
96	Ø240xØ130 2thk Water/Gas Tight Conductive Gasket	Conductive Elastomer	N/A	N/A
97	Ø265xØ155 2thk Water/ Gas Tight Conductive Gasket	Conductive Elastomer	N/A	N/A
98	Ø290xØ180 2thk Water/Gas Tight Conductive Gasket	Conductive Elastomer	N/A	N/A
99	Ø320xØ208 2thk Water/Gas Tight Conductive Gasket	Conductive Elastomer	N/A	N/A
100	Pre-Wetting Nozzle Gasket M6	R.N.C./BS 2F 66	BS 7531/ N.R.N.R./ SW&FW	N/A
101	89x38 Prewet Gasket	N.A.F./ BS 7531		N/A
102	Klinger HT gasket raw mat	KLINGER FERROFLEX SP-AFII.	N/A	N/A



4. 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.
9. 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.
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? Do you have data / reports you could provide examples of?

5. 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 gaskets?
2. Do you have capability to manufacture gaskets locally in Australia? If yes, please provide examples of local content manufacture. If not, please provide country of origin and estimated percentage of Australian Industry Capability content.
3. Provide details of how your company can support ASC Shipbuilding's commitment to support AIC. Detail if the labour to complete the SOW will be provided by Australian permanent residents.
4. Do you have the capability to manufacture in-house or will you need to subcontract portions of the work? Provide details of your capability and on any outsourced components.



5. Which items do you stock locally in Australia that are readily available for order?
6. Which items would need to be sourced at time of order? Indicate whether you would need to source from overseas or domestic.
7. Do you have access / subscription to British (BS) Standards?
8. Have you got the capability of modifying standard parts to meet bespoke requirements?
9. Does your organisation have an understanding and ability to test in accordance with Lloyd's Registers rules for surface ships? If yes then please elaborate.
10. Please provide details and location of your warehousing capability?
11. Stipulate any further competitive discriminators currently not identified.

Closing date for Expression of Interest:
16th October 2020

