

Expression of Interest:

Water Chiller

Electrical Panel

Hunter Class Frigate Program

Including:

- Scope of Work
- Required Supplier Capabilities
- Pre-Qualification Questionnaire
- Closing Date For Expression Of Interest



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1 PREFACE

Johnson Controls Australia as a main supplier to the Type 26 Global Combat Ship is seeking Expressions of Interest from Australian industry in order to deliver **Water Chillers** to BAE Systems Australia Limited and ASC Shipbuilding Pty Ltd for the Hunter Class Frigate Program.

Johnson Controls is the OEM of water chillers for a range of HVAC and process cooling requirements and is a global leader in the manufacture of specialised chillers for Navy applications.

The HCFP chillers will be based on the existing Type 26 chiller design with Australian engineering input to enable local fabrication and the use of COTS components available in Australia.

Each Water Chiller requires a compact, custom-made electrical enclosure housing motor starters and controls with approximate dimensions of. 2000(L) x 1600(W)x 900(H).

The purpose of the Pre-Qualification Questionnaire is to establish the feasibility of prospective industrial partners to provide the Water Chiller Electrical Panels to Johnson Controls Australia for the term of the proposed contract. The information you provide within your EOI will be used by the OEM to down select organisations to receive a formal Request for Proposal.

2 SCOPE OF WORK

The **Water Chiller Electrical Panel** is a build to print design however some collaboration with **Johnson Controls** may be required to maximise local industry content without adversely impacting cost.

The enclosure is fabricated from welded box steel sections with a painted steel sheet/plate exterior attached to a thick, solid steel base plate. The panel features:

- Removable panels for internal component access
- Hinged doors for access to the PLC
- Stainless steel gland plates on side of enclosure (no cable access from bottom)
- Variable speed drive with associated RFI filters
- Internal mounting plates and rails for removal of large components
- EMC segregation of internal compartments
- Water cooling circuit (excluded from panel scope of supply)

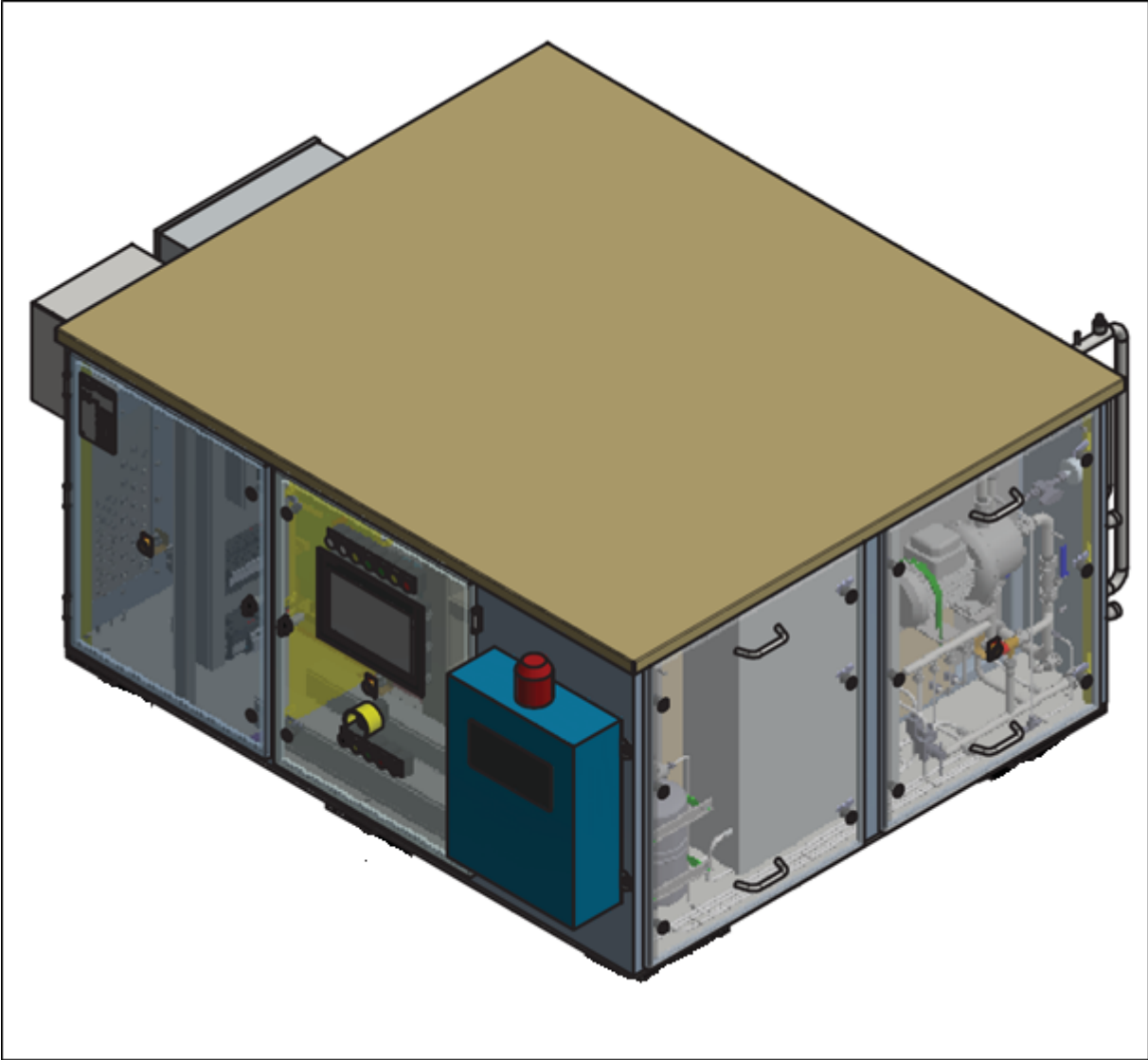
Components are to be installed and wired as per Johnson Controls design documentation.

The vendor is to supply all standard electrical components for the panel as noted on the design drawings. Substitution of nominated components for readily available items or Australian manufactured products will be considered to increase Australian content and maintainability. Johnson Controls will free-issue main components including the controller and variable speed drives

The successful contractor is required to complete all requirements to fully fabricate the electrical panel including the following:

- Fabrication of steel frame
- Fabrication and installation of sheet steel including doors and panels
- External and internal painting
- Supply and installation of hinges, handles, latches etc
- Supply and installation of mounting plates, rails, gland plates, EMC gaskets etc
- Supply and installation of electrical components as noted and installation of free-issued items
- Wiring, labelling, and electrical testing
- Preparation for shipping and Submission of MDR documentation

All welding shall comply to Australian standards



Water Chiller Electrical Panel

3 REQUIRED SUPPLIER CAPABILITIES

The successful supplier will demonstrate the following capabilities:

- ISO 9001:2015 Approved
- Manufacture, assembly, testing capabilities of build to print design
- Experience in the fabrication specialised electrical panels
- Qualified electricians and contractor licence
- Experience of painting to Marine requirement, internally or via sub-suppliers
- Documented material control and traceability procedures for in-house and sub-supplier manufacture

Previous experience with the supply of similar equipment for Navy or other Defence applications would be well regarded.

4 PRE-QUALIFICATION QUESTIONNAIRE

1. Provide full details of previous major defence, maritime or commercial projects in which your company has delivered fabricated equipment.
2. Do you have previous experience supplying specialised electrical panels?
3. What State/s do you have these capabilities in?
4. Have you worked on defence contracts before?
5. Provide details of the company's management organisation structure.
6. Are you an Australian-owned company?
7. Are you an Indigenous company?
8. Please provide the number of Indigenous/Aboriginal/Torres Islander employees your organisation has? (Stipulate Full Time and Part Time)
9. State acquired company certification and accreditations.
10. Stipulate any further competitive discriminators that have not been identified in the answers to previous questions.
11. Have you updated your ICN company profile with your trading name, contact details, website, ABN, number of employees, annual turnover, export details (if applicable) and ANZSIC codes? This information will be used in assessing this EOI.
12. Do you have quality system accreditation under ISO 9001:2015?

5 CLOSING DATE FOR EXPRESSION OF INTEREST

5.00pm (Australian Eastern Standard Time) on 31st July 2020