



Expression of Interest (EOI)

Market Engagement – Potential Multi-Stage Procurement Process

Bulk Water Transport for Fire & Rescue NSW

Anticipated Contract Term: Three to Five (3 to 5) years with possible two (2) x one (1) year extension options of one (1) year each, thus allowing for a possible total of seven (7) years.

RFT No: FRNSW000159

First Stage – Mandatory *Expression of Interest (EOI)*

Issued: Thursday, 22 December 2022

Responses Close: Friday, 3 February 2023, 2:00 pm, Sydney Time

Fire + Rescue NSW is commencing a procurement process to acquire Bulk Water Transport.

The first stage is an open, mandatory **Expression Of Interest** stage seeking companies to respond to this notice with a short statement of interest, affirming they have the ability to provide product suitable for this specification, and would expect to submit if invited to a competitive process.

If subsequent market engagement stages are taken FRNSW may not consider offers from suppliers that do not respond to this initial RFI stage.

Further possible stages, include options such as:-

- Request for detailed submission of attributes of products offered and detail of support services during life of product
- Request for submission of pricing for products
- Direct negotiation with respondent/s with appropriate fit for purpose products
- Release of a tender or other market engagement vehicle
- Submission of a Best and Final Offer (BAFO)

Other stage options are anticipated to be issued, as deemed appropriate by FRNSW, in its sole discretion, in 2023. Said stages, or any other stages devised by FRNSW, may go ahead or be postponed or abandoned, at FRNSW's sole discretion.

For this first stage, suppliers are asked to respond with:-

- A Brief statement indicating the organisation's experience and capability to meet the specification, that is attached to this EOI document.

NOTE: PRICES ARE NOT TO BE PROVIDED IN THIS STAGE.

Responses are to be uploaded via www.tenders.nsw.gov.au

Inquiries after 6 January 2023 should be forwarded to Darren Horton, Procurement Officer, darren.horton@fire.nsw.gov.au

Specifications

Bulk Water Transfer System & Flood Module

Requirement

A bulk water transfer system will be used to:

- Supplement local hydrant supply where this is insufficient during a fire.
- Supply monitors and aerial appliances at significant industrial and structural fires.
- Refill appliances at major and remote bushfires.
- Supplement or replace fresh water supplies compromised by a disaster.
- Mitigate the risk of inundation in low-lying areas during flood events.
- Remove flood and fire water from inundated properties and areas.

Bulk water transfer systems would also be used following a catastrophic event and may require a total flow rate exceeding 40,000 litres of water per minute.

A bulk water transfer system consisting of a high-volume pump and large diameter hose should be able to collect and deliver water for firefighting as a standalone unit and as any part of a pump relay with:

- Urban pumpers.
- Additional bulk water transfer systems.
- Additional bulk water transfer systems and urban pumpers.

The bulk water transfer system should include hose fittings so that water may be collected from and delivered to 70 mm layflat 'H' class fabric hose connected with 65 mm Storz couplings.

FRNSW envisages a bulk water transfer system may be used to deliver large volumes of water at normal pressure, or larger volumes of water at low pressure. At normal pressure, a bulk water transfer system should be able to deliver at least 3500 l/min at 700 kPa, 1000 m from the pump outlet.

At low pressure, a bulk water transfer system should be able to deliver at least 7000 l/min at 300 kPa, 100 m from the pump outlet.

Bulk water transfer systems that are packaged in portable containers should be suitable for transport using FRNSW's current hook lift truck. This uses a Hyva® 16-53S hook loader.

A bulk water transfer system should improve the efficiency of firefighting operations and have capacity to reduce:

- Number of pumping appliances required in a pumping relay.
- Lengths of hose required in a pumping relay.
- Performance loss when water is collected from depths.
- Time taken to deploy and recover hose.
- Number of firefighters required to relay pump.

HIGH VOLUME PUMP

A high-volume pump should be able to collect water from sources that may otherwise be inaccessible because of:

- Structures.
- Rough terrain and soft banks.
- Distances that exceed the length of available suction hose.
- Depths that exceed maximum practical lift.
- Significant tidal variation. (without needing to relocate the pump)

LARGE DIAMETER HOSE

Large diameter hose should:

- Have minimal friction loss and elongation, at high pressures and flows over significant distances.
- Be durable, resist contamination, require minimal maintenance, and be supplied in lengths that may be easily replaced.
- Be able to be directly connected to a heavy urban pumper or supplied with adapters to facilitate connection to a heavy urban pumper.
- Be supplied with a storage system that facilitates rapid deployment and recovery and minimises manual handling.
- Be able to be used for water delivery by conventional pumpers without a high-volume pump.

FLOOD MODULE REQUIREMENTS

- Capacity: up to 40,000 l/min
- Basic skid mini container
- Be suitable for hook arm handling
- High-capacity Flood pump/s
- Demountable frame and floaters
- Helicopter lift-eyes
- Forklift slots