

ICN Scope of Work

Package Number	Saunders-011
Package Name	Mechanical Equipment Vendor Supply

Scope of Work (SOW)

Supply of vendor mechanical equipment as follows:

- Supply of Jet A-1 filtration packages:
 - Design Operating Flow: 300 m³/hr each. Design Pressure: 1,960 kPag.
 - Filter/ Water separators per API 1581 (EI 1581). Housing per AS 1210 or equivalent.
 - To remove organic/ particulate and water.
 - Expected service life of 20 years in tropical (Darwin) climate.
- Supply of Jet A-1 (F35) & JP-8 (F34) loading arms:
 - Duty Flow Rate: 150 m³/hr
 - Integrated fuel dispensing and management system.
 - 2 lanes, 3 loading arms per lane.
 - Capability to dispense to all trailers of 2-off A-triple road trains simultaneously (6 dispensing points total).
 - Expected service life of 20 years in tropical (Darwin) climate.
- Supply of Jet A-1 pumps:
 - Pump Duty: 150 m³/hr @ 79m head. NPSHa 11.3m
 - Centrifugal Pumps per API 610 – Self-priming and skid mounted with motor. Driven by variable speed drive. Steel/ Stainless steel construction
 - Single mechanical seals conforming to API 682.
 - Expected service life of 20 years in tropical (Darwin) climate. Expected service life of 20 years in tropical (Darwin) climate.
- Supply of Fuel System Icing Inhibitor (FSII) pumps:
 - Charge Pump Duty: 3.2 m³/hr @ 10m head. NPSHa 10.7m.
 - Loading Pump Duty: 20.0m³/hr @ 10m head. NPSHa 10.7m.
 - Sliding Vane Positive Displacement Pump per API 610 – Self-priming, skid mounted with motor. Variable speed drive driven.
 - Stainless steel construction
 - Single mechanical seals conforming to API 682.
 - Expected service life of 20 years in tropical (Darwin) climate.
- Supply of Fuel System Icing Inhibitor (FSII) Desiccant Dryer:
 - Design pump out rate: > 210 LPM.
 - Dryer for removal of water vapour within the air on a dual direction tank vent
 - Suitable for Air/FSII vent vapour
 - Stainless Steel housing



- Expected service life of 20 years in tropical (Darwin) climate.
- Supply of Jet Fuel JP-5 Marine filtration packages:
 - Design Flow Rate: 467 m³/hr each. Design Pressure: 1,950 kPag
 - Filter/ Water separators per API 1581 (EI 1581). Housing per AS 1210 or equivalent.
 - To remove organic/ particulate and water.
 - Expected service life of 20 years in tropical (Darwin) climate.
- Supply of Jet A-1 Marine filtration packages:
 - Design Flow Rate: 467 m³/hr each. Design Pressure: 1,950 kPag
 - Filter/ Water separators per API 1581 (EI 1581). Housing per AS 1210 or equivalent.
 - To remove organic/ particulate and water.
 - Expected service life of 20 years in tropical (Darwin) climate.
- Supply of Marine Jet Fuel JP-5 (F44) & Jet A-1 (F35) loading arms:
 - Maximum Flow Rate: 1400 m³/hr. Design Pressure: 14 barg
 - Design, specification, and supply of Marine Loading Arm, including associated items.
 - Expected service life of 50 years in tropical (Darwin) climate.
- Supply of Jet A-1(F35) & JP-5 (F44) pumps:
 - Marine Loadout Pump Duty: 320 m³/hr @ 72m head. NPSHa 10.0m.
 - Centrifugal Pumps per API 610 – Self-priming and skid mounted with motor. Driven by variable speed drive. Steel/ Stainless steel construction
 - Single mechanical seals conforming to API 682.
 - Expected service life of 20 years in tropical (Darwin) climate.
- Design and supply of the complete Fuel Additive Injection system:
 - Product Flow Rate: 7,500 L/min (nominal). Operating Pressure: 550 kPag.
 - The system is required to inject three types of additives, being FSII, SDA, and CI/LI. Additives are injected to Jet A-1 [F35] in order to regrade this to JP-8 [F34].
 - The additive injection is to occur during road tanker loading and during tank rebalancing / regrading.
 - Expected service life of 50 years in tropical (Darwin) climate.
- Design and supply of a complete fire system.
 - Expected service life of 50 years in tropical (Darwin) climate.
- Supply of Jet A-1 Product Saver Return Pumps
- Supply of Jet Fuel JP-5 Product Saver Return Pumps
- Supply of Sump Pumps
- Supply of Pipeline PIG Launcher/Receivers
- Supply of air compressors
- Supply of air receiver
- Supply of refrigerant air dryer
- Supply of instrument air filters



Minimum SOW Requirements	As per TTP Documentation and Saunders International Standard Contract Conditions
Delivery / Supply Schedule	April 2022 – March 2023
Registration Information	
<p>Saunders International is committed to ensuring Australian Industry the opportunity to participate in US Bulk Fuel Storage Facility.</p> <p>You are invited to submit an Expression of Interest if you have the relevant capability and capacity to undertake the scope of work. Suppliers and contractors will only be considered for pre-qualification and tender lists if suitably qualified.</p> <p>All Expressions of Interest (EOIs) are to be completed via ICN Gateway USBulkFuelStorage.icn.org.au.</p> <p>Please contact ICNNT if EOI assistance is required. Contact details: (08) 8922 9422 or resources@icnnt.org.au</p>	

