

CCGS Ann Harvey	TENDER SPECIFICATION	
Supply of NEW Oily Water Separating System Supply		

Part 1: SUPPLY:

- 1.1** The intent of this tender specification shall be to supply new Oily Water Separating System complete with 15 ppm alarm monitoring device compliant to IMO-Resolution MEPC. 107(49) and certified to MED 96/98/EG to allow for operation in Canadian Waters as per the Canada Shipping Act for the CCGS Ann Harvey.

Part 2: REFERENCES:

- 2.1 Standards**
- 2.2.1.** IMO-Resolution MEPC.107(49)
 - 2.2.2.** Marpol 73/78 Annex I
 - 2.2.3.** MED 96/98/EG
- 2.2 Regulations**
- 2.3.1.** Canada Shipping Act

Part 3: Mandatory Requirements:

- 3.1** Contractor shall supply Oily Water Separating System complete with 15 ppm alarm monitoring device compliant to IMO-Resolution MEPC. 107(49) and certified to MED 96/98/EG to allow for operation in Canadian Waters as per the Canada Shipping Act.
- 3.2** Oily Water Separating System shall have a minimum capacity of 1 m³/hr.
- 3.3** Power requirements shall be 575V/60Hz/3Ph. Controls may be 120VAC single phase.
- 3.4** OWS system shall fit in the following envelope: 31.5" Wide x 54 " Length x 52" High. Note: The Unit shall have the control panel and monitoring device fitted across the Width dimension to align with the current arrangement of the piping manifold fitted onboard the CCGS Ann Harvey. Note: Contractor shall confirm with CG the actual layout prior to supply after award of contract.
- 3.5** 15ppm monitor/alarm device for oil content in effluent shall be type-tested to IMO-Resolution MEPC. 107(49) and certified to according to MED 96/98/EG. The 15ppm alarm shall initiate automatic stop of overboard discharge of oily mixtures along with immediate alarm. OWS shall be supplied with automatic valves to direct liquid mixture either overboard or back to suction based on continuous monitoring of 15ppm oil content meter. The 15ppm bilge alarms shall be retained within internal memory storage for 18 months recording date/time. The oil monitoring device shall be fitted directly on the OWS.
- 3.6** The Oily Water Separator system shall be fitted with an automatic stopping device to stop the discharge overboard of any oily product when the oil content of effluent/discharge exceeds 15ppm.

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- 3.7** The Oily Water Separating System (OWS) shall be supplied as a complete package including all auxiliary components to allow for fully functional unit after connection to vessels' pipework and systems. The unit shall be skid mounted or contained on a common base. OWS shall connect to the following pipework: oily bilge water **suction**, oily bilge water **return**, clean product water **overboard discharge**, **ships water** connection, **ships air** connection, **product sample** to Meter. Auxiliary components included effluent meter, electric driven supply pump, heater, polishing filter, safety valves, pressure gauges, manual and automatic valves, control panel, strainer, coalesce, sacrificial anodes etc as required for the OWS to operate once connected to vessels pipework.
- 3.8** OWS shall be capable of being tied into existing Techsol vessel Alarm and Monitoring System to provide general alarm notification upon alarm of OWS system or oil content meter.
- 3.9** OWS system (Housings and piping) shall be completely coated inside and out with a marine grade paint system or shall be constructed of materials which are corrosion resistant.
- 3.10** OWS shall be capable of being disassembled from base plate or skid to allow transporting to space for installation. Vendor shall confirm that OWS can fit through 27.5" opening or be disassembled to allow for transporting to space for installation. Disassembly and reassembly shall not affect warranty.
- 3.11** Control panel/box shall be mounted on base plate/skid. Control panel shall meet IP 55 rating minimum to prevent ingress of solids/water. Electrical drawing for panel shall be included inside door of panel. Digital display shall be LCD or LED on panel and oil content meter and shall be backlit. The power shall be capable of being locked out locally on the OWS system. The OWS digital display shall show alarm fault o direct operator to cause of alarm.
- 3.12** Electric pump shall be included with OWS. Pump shall have protection against dry-running. Motor shall have IP 55 protection minimum.
- 3.13** Strainer on suction shall be supplied with stainless steel mesh basket insert.
- 3.14** OWS system shall include 12 month warranty from installation date.
- 3.15** Spare parts required for first minor and major overhaul shall be included with supply of OWS and shall be included in their bid price.
- 3.16** Service tools required for the OWS system shall be included in the supply of the OWS and be included in their bid price.
- 3.17** Field Service Representative shall be available within 24 hrs.
- 3.18** OWS system shall be supplied within 6 months of contract award to 280 Southside Rd, St John's, NL.

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- 3.19** Contractor shall include price per unit for 8 additional OWS option(s) meeting 3.1-3.17 along with 'Proof of Performance' and 'Deliverables' within 12 months of contract award. Delivery shall be ground freight to location identified at time of order and will be paid based on actual freight invoice with no mark up. Travel requirements for commissioning of units will be paid based on invoices for flights, hotel, rental car and meals /incidentals without mark up.
- 3.20** Bidding vendor shall provide in their proposal proof of meeting Part 3: Mandatory Requirements, Part 4: Proof of Performance and Part 5: Deliverables. It is recommended that the bidder respond to each section of this document and clearly state or show that its requirements are understood and met. Failure to clearly demonstrate compliance may result in the bid being rejected.

Part 4: PROOF OF PERFORMANCE:

4.1 Testing

- 4.1.1.** Contractor shall include in their bid travel to St. John's, NL to complete commissioning / testing of installed OWS along with providing training / familiarization to vessels crew. Contractor shall allow for two 12 hr days onboard vessel.
- 4.1.2.** Contractor shall provide Classification Society Survey certificate including OWS serial number and order number.
- 4.1.3.** Contractor shall provide IMO-type test certificate according to IMO-Resolution MEPC. 107 (49) including the OWS serial number along with order number.

Part 5: DELIVERABLES:

5.1 Delivery

- 5.1.1** Contractor shall deliver the OWS within 6 months of contract award to 280 Southside, St John's, NL.

5.2 Spares

- 5.2.1.** Contractor shall include first minor and major maintenance kit as dictated by the OEM with their supply along with service tools.
- 5.2.2.** Contractor shall provide itemized list of recommended spare parts/tools to maintain onboard vessel including individual price per item.

5.3 Training

- 5.3.1.** Contractor shall include in their bid travel to St. John's, NL to complete commissioning of installed OWS along with providing training / familiarization to vessels crew. Contractor shall allow for two 12 hr days onboard vessel as per 4.1.1.

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5.4 Manuals

5.4.1. Contractor shall supply Installation, Maintenance and Operating manuals in both English and French. 2 copies in each language along with 1 set on CD-ROM in English.