



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

Cabot Place, Phase II, 2nd Floor

Box 4600

St. John's, NF

A1C 5T2

Bid Fax: (709) 772-4603

INVITATION TO TENDER

APPEL D'OFFRES

**Tender To: Public Works and Government Services
Canada**

We hereby offer to sell to Her Majesty the Queen in right of
Canada, in accordance with the terms and conditions set
out herein, referred to herein or attached hereto, the goods,
services, and construction listed herein and on any attached
sheets at the price(s) set out therefor.

Soumission aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la
Reine du chef du Canada, aux conditions énoncées ou
incluses par référence dans la présente et aux annexes
ci-jointes, les biens, services et construction énumérés
ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

PWGSC / TPSGC - Nfld. Region

Cabot Place, Phase II, 2nd Floor

Box 4600

St. John's, NF

A1C 5T2

Title - Sujet Tow Winch--CCGS Cygnus	
Solicitation No. - N° de l'invitation F6855-170802/B	Date 2017-11-10
Client Reference No. - N° de référence du client F6855-170802	GETS Ref. No. - N° de réf. de SEAG PW-\$OLZ-002-6951
File No. - N° de dossier OLZ-7-40073 (002)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-11-29	
Time Zone Fuseau horaire Newfoundland Standard Time NST	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Dalton, Colleen	Buyer Id - Id de l'acheteur olz002
Telephone No. - N° de téléphone (709) 772-4931 ()	FAX No. - N° de FAX (709) 772-4603
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF FISHERIES AND OCEANS C/O SUPPLY DEPOT SOUTHSIDE RD PO BOX 5667 ST JOHNS Newfoundland and Labrador A1C5X1 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date



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Reine du chef du Canada, aux conditions énoncées ou
incluses par référence dans la présente et aux annexes
ci-jointes, les biens, services et construction énumérés
ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

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Time Zone Fuseau horaire	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Dalton, Colleen	Buyer Id - Id de l'acheteur olz002
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PART 1 - GENERAL INFORMATION

1.1 Requirement

The Canadian Coast Guard has a requirement to purchase a new tow winch for the CCGS Cygnus with the option to purchase an additional three (3) tow winches in the next two year. A list of mandatory requirements are included which must be met in order to be deemed responsive.

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.3 Trade Agreements

The requirement is subject to the provisions of the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 5 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Newfoundland and Labrador.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (One hard copies)

Section II: Financial Bid (One hard copies)

Section III: Certifications (One hard copies)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

3.1.3 SACC Manual Clauses

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.
- (c) The evaluation team will determine first if there are two or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria [Must be completed by offeror with bid submission]

To be deemed responsive, offerors must meet the following:

- Please check (✓) accordingly:

Meets all specifications and conditions stated in Annex "B", Mandatory Requirements.

4.1.2 Financial Evaluation

SACC Manual Clause A0220T (2014-06-26), Evaluation of Price

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

SACC Manual Clause A0031T (2010-08-16) Basis of Selection – Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Canadian Coast Guard has a requirement to purchase a new tow winch for the CCGS Cygnus with the option to purchase three (3) additional tow winches in the next two years.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.2 Delivery Date

All the deliverables are requested to be delivered on or before 09 March, 2018. What is the best possible delivery date _____

6.4.5 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Colleen Dalton
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
The John Cabot Building, 7th Floor
St. John's NL A1C 5T2

Telephone: 709-772-4931

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olz002
CCC No./N° CCC - FMS No./N° VME

Facsimile: 709-772-2932
E-mail address: colleen.dalton@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Project Authority

The Project Authority for the Contract is:

Geoff Stewart

709-772-4216

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

Name: _____

Telephone: _____

Facsimile: _____

E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a *firm price as specified in contract* a cost of \$ _____. Customs duties are *included* and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

6.7 Invoicing Instructions

Invoices must be distributed as follows:

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-
- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.8.2 SACC Manual Clauses

SACC Manual Clause A3060C (2008-05-12), Canadian Content Certification

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Newfoundland and Labrador.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2016-04-04)
- (c) Annex A, Requirement;
- (d) the Contractor's bid dated _____

6.11 SACC Manual Clauses

SACC Manual Clause B7500C (2006-06-16), Excess Goods

ANNEX "A"
REQUIREMENT

Statement of Requirements for a Tow Winch for the CCGS Cygnus.

The Canadian Coast Guard has a requirement to purchase a new tow winch for the CCGS Cygnus with the option to purchase an additional three (3) tow winches in the next two year. A list of mandatory requirements are included which must be met in order to be deemed responsive.

Pricing

Tow Winch for CCGS Cygnus	\$ _____ x 1
Cost for Installation Drawings	\$ _____ x 1
Cost for Installation Specification	\$ _____ x 1
Shipping (estimated)	\$ _____ x 1

Options:

Tow Winch (3 in the next 2 years)	\$ _____ x 3
Cost for Installation Drawings	\$ _____ x 3
Cost for Installation Specification	\$ _____ x 3
Shipping (estimated)	\$ _____ x 3

Options:

Wire rope and spooling:

Spooling of customer supplied wire	\$ _____
Spooling as per manufacturer's recommended tension	\$ _____

Level wind:

Diamond screw mechanical level wind	\$ _____
Stainless steel guide rod, high strength steel diamond screw with bronze spooling blade.	\$ _____
Roller box with offset rollers	\$ _____
Stainless steel chain	\$ _____

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Note:

Shipping and handling is an estimate only. Actual costs will be paid based on invoice with no mark- up.

The options may not be exercised but pricing is requested in the event the option will be exercised and the prices will be used for evaluation purposes. The bidder who has met **ALL** stated mandatory requirements and has the lowest overall evaluated price will be recommended for award of a contract. The contract will be awarded for the purchase of one (1) tow winch only.

FOB Destination:

Southside Road
C/O Supply Depot
Attn: CCGS Cygnus

To arrange delivery please contact Geoff Steward as per the below.

Contact Telephone: 1-709-772-4216

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ANNEX "B"

MANDATORY TECHNICAL SPECIFICATION

Tow Winch Mandatory Requirements for CCGS Cygnus

Winch shall be hydraulically driven and be able to run with 22gpm, 3500psi supply.

Met: ☐ Yes ☐ No

All hydraulic lines to be flushed to ASTM D4174-15 and capped to prevent ingress of dirt and/or loss of oil.

Met: ☐ Yes ☐ No

Drum shall have at minimum the capacity to hold 925 foot ¾ inch wire with 400 foot 1 ¼ inch double braded nylon attached to the wire. Drum shall be adequately sized to allow full wraps to prevent jamming of towrope.

Met: ☐ Yes ☐ No

Bare drum pull shall be at min. 5400kg at 30m/min.

Met: ☐ Yes ☐ No

Winch shall be fitted with at minimum an 8" warping head.

Met: ☐ Yes ☐ No

The winch overall dimension (without level wind) must be less than 50" height, less than 60" in length. Overall weight shall be kept to less than 3700lbs dry weight without cable.

Met: ☐ Yes ☐ No

Winch shall be fitted with a heavy duty band brake with asbestos free brake lining with manual hand wheel as well as hydraulic braking using counterbalance valves.

Met: ☐ Yes ☐ No

Winch shall have a totally enclosed oil bath drive.

Met: ☐ Yes ☐ No

Winch drum must be capable of being declutched from drive shaft.

Met: ☐ Yes ☐ No

Winch shall be designed in accordance with the recommended design procedures from Lloyds Register Code for Lifting Appliances in a Marine Environment or DNV No. 2.22- Lifting Appliances.

Met: ☐ Yes ☐ No

The winch must be designed to be fully functional and rated to operate in -30°C to + 35°C temperatures. Structural steel must be cold temperature tested plate grade 50WT or equivalent.

Met: ☐ Yes ☐ No

Winch shall be hot dipped galvanized finish with standard epoxy marine finish.

Met: ☐ Yes ☐ No

Winch shall come equipped with mount and pre-piped hydraulic controls.

Met: ☐ Yes ☐ No

Winch shall be fitted with sealed roller bearings with grease passages. Drum bushings are to be bronze (grade SAE 660 or higher) with grease passages.

Met: ☐ Yes ☐ No

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All welds must follow CWB certified procedures. The manufacturer must present proof of its CWB certified welding program and applicable procedures as they pertain to the winch fabrication.

Met: ☐ Yes ☐ No

Factory acceptance Tests must be provided for equipment. FAT shall be witnessed by either technical authority or Class Inspector. Testing shall follow Lloyds Register or DNV where applicable.

Met: ☐ Yes ☐ No

The winch shall be capable of stopping, holding and restarting under the specified loading conditions and speeds.

Met: ☐ Yes ☐ No

Winch must be provided with proportional speed control using a directional control valve with spring center return mount direct to winch.

Met: ☐ Yes ☐ No

All hard tubing shall be stainless steel with stainless steel ends and furls. All fittings and hose ends shall be steel at a minimum and thoroughly covered with wax/oil impregnated tape for corrosion protection. Tape must cover fitting and extend beyond fitting onto tube or hose a minimum of 2 times the hose or tube diameter to ensure fitting is sealed from water ingress.

Met: ☐ Yes ☐ No

All moving parts and pinch points shall be provided with suitable guards and/or decals to ensure safe operation.

Met: ☐ Yes ☐ No

Where appropriate, nuts, bolts, washers and drive chains shall be 316L stainless steel.

Met: ☐ Yes ☐ No

Manufacturer shall have an established quality management system, ISO 9000:2008 or equivalent.

Met: ☐ Yes ☐ No

Equipment must be engineered with supporting calculations and drawings available for audit if requested.

Met: ☐ Yes ☐ No

All non-galvanized corrosive surfaces are sandblasted to near white.

Met: ☐ Yes ☐ No

1. Primer – International Paints Interzinc 52 Zinc epoxy primer or equivalent ☐ Yes ☐ No
2. Tie Coat – International Paints Intergard or equivalent ☐ Yes ☐ No
3. Top Coats – International Interfine 629 (gloss) or equivalent ☐ Yes ☐ No
4. Color – Coast Guard Buff ☐ Yes ☐ No

Manuals Listed below shall include, but not be limited to:

1. General assembly drawings of winch and sub-assemblies
2. Full technical data on all components
3. Complete installation and operation instructions
4. Maintenance schedule
5. Recommended spare parts
6. Copy of factory acceptance test
7. Warranty information

Met: ☐ Yes ☐ No

Solicitation No. - N° de l'invitation
F6855-170802
Client Ref. No. - N° de réf. du client
F6855-170802

Amd. No. - N° de la modif.
File No. - N° du dossier
OLZ-7-40073

Buyer ID - Id de l'acheteur
o1z002
CCC No./N° CCC - FMS No./N° VME

Three (3) copies of manufacturer illustrated operation and maintenance manuals. One (1) additional copy must be in French Language.

Met: ☐ Yes ☐ No

One (1) set of manufacturer's recommended maintenance spares must be provided with unit.

Met: ☐ Yes ☐ No

Three (3) copies of the manufacturer's model specific illustrated parts manual plus an additional copy in French Language.

Met: ☐ Yes ☐ No

Electronic format of all manuals/drawings/documents shall be provided on USB thumb drive.

Met: ☐ Yes ☐ No

Specification sheet included with the bid for the product being offered.

Met: ☐ Yes ☐ No

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OLZ-7-40073

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ANNEX "C"

INTEGRITY PROVISION – LIST OF NAMES

The Integrity Provision of General Conditions 2030 requires that bidders supply the following :

List of Names

- (a) Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s). Bidders bidding as societies, firms, or partnerships do not need to provide lists of names.
- (b) If the required list of names has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to provide the names within the time frame specified will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.
- (c) The Bidder must immediately inform Canada in writing of any changes affecting the list of names of directors during this procurement process.

Complete Legal Name _____

PBN _____

List of names of individuals currently on the Board of Directors or Owners:

Tow Winch Mandatory Requirements for CCGS Cygnus

1. Winch shall be hydraulically driven and be able to run with 22gpm, 3500psi supply.
2. All hydraulic lines to be flushed to ASTM D4174-15 and capped to prevent ingress of dirt and/or loss of oil.
3. Drum shall have at minimum the capacity to hold 925 foot $\frac{3}{4}$ inch wire with 400 foot 1 1/4 inch double braded nylon attached to the wire. Drum shall be adequately sized to allow full wraps to prevent jamming of towrope.
4. Bare drum pull shall be at min. 5400 kg at 30m/min.
5. Winch shall be fitted with at minimum an 8" warping head.
6. The winch overall dimension (without level wind) must be less than 50" height, less than 60" in length. Overall weight shall be kept to less than 3700lbs dry weight without cable.
7. Winch shall be fitted with a heavy duty band brake with asbestos free brake lining with manual hand wheel as well as hydraulic braking using counterbalance valves.
8. Winch shall have a totally enclosed oil bath drive.
9. Winch drum must be capable of being declutched from drive shaft.
10. Winch shall be designed in accordance with the recommended design procedures for Lloyds Register Code for Lifting Appliances in a Marine Environment or DNV No. 2.22 – Lifting Appliances.
11. The winch must be designed to be fully functional and rated to operate in -30 degrees C to +35 degrees C temperatures. Structural steel must be cold temperature tested plate grade 50WT or equivalent.
12. Winch shall be hot dipped galvanized finish with standard epoxy marine finish.
13. Winch shall come equipped with mount and pre-piped hydraulic controls.
14. Winch shall be fitted with sealed roller bearings with grease passages. Drum bushings are to be bronze (grade SAE 660 or higher) with grease passages.
15. All welds must follow CWB certified procedures. The manufacturer must present proof of its CWB certified welding program and applicable procedures as they pertain to the winch fabrication.
16. Factory acceptance Tests must be provided for equipment. FAT shall be witnessed by either technical authority or Class Inspector. Testing shall follow Lloyds Register or DNV where applicable.

17. The winch shall be capable of stopping, holding and restarting under the specified loading conditions and speeds.
18. Winch must be provided with proportional speed control using a directional control valve with spring center return mount direct to winch.
19. All hard tubing shall be stainless steel with stainless steel ends and furls. All fittings and hose ends shall be steel at a minimum and thoroughly covered with wax/oil impregnated tape for corrosion protection. Tape must cover fitting and extend beyond fitting onto tube or hose a minimum of 2 times the hose or tube diameter to ensure fitting is sealed from water ingress.
20. All moving parts and pinch points shall be provided with suitable guards and/or decals to ensure safe operation.
21. Where appropriate, nuts, bolts, washers and drive chains shall be 316L stainless steel.
22. Manufacturer shall have an established quality management system, ISO 9000:2008 or equivalent.
23. Equipment must be engineered with supporting calculations and drawings available for audit if requested
24. All non-galvanized corrosive surfaces are sandblasted to near white
 1. Primer – International Paints Interzinc 52 Zinc epoxy primer or equivalent.
 2. Tie Coat – International Paints Intergard or equivalent.
 3. Top Coats – International Interfine 629 (gloss) or equivalent.
 4. Color – Coast Guard Buff.
25. Manuals listed below shall include, but not limited to:
 1. General assembly drawings of winch and sub-assemblies.
 2. Full technical data on all components.
 3. Complete installation and operation instructions.
 4. Maintenance schedule
 5. Recommended spare parts,
 6. Copy of factory acceptance test
 7. Warranty information.
26. Three (3) copies of manufacturer illustrated operation and maintenance manuals. One (1) additional copy must be in French Language.
27. One (1) set of manufacturer's recommended maintenance spares must be provided with unit.

28. Three (3) copies of the manufacturers model specific illustrated parts manual plus an additional copy in French Language.
29. Contractor shall include in the cost of the bid, the cost for providing installation drawings and installation specification for the winch proposed.
30. Electronic format of all manuals/drawings/documents shall be provided on USB thumb drive.
31. Delivery of the manuals and installation drawings shall be by February 9, 2018.
32. Delivery of complete winch shall be by March 9th, 2018 to Canadian Coast Guard Technical Stores, St John's, NL.

Option 1: Wire rope and spooling

1. Spooling of customer supplied wire
2. Spooling as per manufacturer's recommended tension

Option 2: Levelwind

1. Diamond screw mechanical level wind
2. Stainless steel guide rod, high-strength steel diamond screw with bronze spooling blade.
3. Roller box with offset rollers
4. Stainless steel chain