



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

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal 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.

Proposition 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 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 CCGS Molly Kool - Slewing Motors	
Solicitation No. - N° de l'invitation F6855-200636/A	Date 2020-09-11
Client Reference No. - N° de référence du client F6855-200636	
GETS Reference No. - N° de référence de SEAG PW-\$OLZ-014-7481	
File No. - N° de dossier OLZ-0-43027 (014)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-09-29	Time Zone Fuseau horaire Newfoundland Daylight Saving Time NDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Peach, Ryan	Buyer Id - Id de l'acheteur olz014
Telephone No. - N° de téléphone (709) 690-9865 ()	FAX No. - N° de FAX () -
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

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	2
1.1 STATEMENT OF REQUIREMENT	2
1.2 DEBRIEFINGS	2
1.3 EPOST CONNECT SERVICE	2
PART 2 - BIDDER INSTRUCTIONS	3
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS.....	3
2.2 SUBMISSION OF BIDS.	3
2.3 ENQUIRIES - BID SOLICITATION.....	4
2.4 APPLICABLE LAWS.....	4
2.5 BID CHALLENGE AND RECOURSE MECHANISMS.....	4
PART 3 - BID PREPARATION INSTRUCTIONS.....	5
3.1 BID PREPARATION INSTRUCTIONS	5
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	7
4.1 EVALUATION PROCEDURES.....	7
4.2 BASIS OF SELECTION.....	7
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	8
5.1 CERTIFICATIONS REQUIRED WITH THE BID	8
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	8
PART 6 - RESULTING CONTRACT CLAUSES	9
6.1 SECURITY REQUIREMENTS	9
6.2 STATEMENT OF REQUIREMENT	9
6.3 STANDARD CLAUSES AND CONDITIONS.....	9
6.4 TERM OF CONTRACT	9
6.5 AUTHORITIES	10
6.6 PAYMENT	11
6.7 INVOICING INSTRUCTIONS	12
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION.....	12
6.9 APPLICABLE LAWS.....	12
6.10 PRIORITY OF DOCUMENTS	12
6.11 DISPUTE RESOLUTION.....	13
ANNEX “A” - STATEMENT OF REQUIREMENT.....	14
ANNEX “B” – PRICING DATA SHEET	15
ANNEX “C” TO PART 3 OF THE BID SOLICITATION	16
ELECTRONIC PAYMENT INSTRUMENTS.....	16
ANNEX “D” - INTEGRITY PROVISIONS – LIST OF NAMES.....	17
ANNEX “E” – SPECIFICATION	18

PART 1 - GENERAL INFORMATION

1.1 Statement of Requirement

1.1.1 The requirement is detailed under Annex "A" of the resulting contract clauses.

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 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

The email address for e-post registration is [**ARBidReceivingNL@pwgsc.gc.ca**](mailto:ARBidReceivingNL@pwgsc.gc.ca).

****Note – Bids/Offeres will be not be accepted if emailed directly to this email address. This email is to initiate an ePost Connect conversation, as detailed in the Standard Instructions.**

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](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

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 in the bid solicitation.

Ryan Peach
Supply Officer
Public Services and Procurement Canada
Canada The John Cabot Building
10 Barter's Hill, St. John's, NL A1C 5T2 or

Electronic submissions may be sent to:

PWGSC Bid Receiving Unit in Newfoundland and Labrador:
TPSGC.RARceptionSoumissionsTNL-ARBidReceivingNL.PWGSC@tpsgc-
pwgsc.gc.ca.

or

Facsimile submissions may be faxed

to: (709) 772-4603

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 5 (FIVE) 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.

2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications
Section IV: Additional Information

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy)
Section II: Financial Bid (1 hard copy)
Section III: Certifications (1 hard copy)
Section IV: Additional Information (1 hard copy)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other 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 hard copy 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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). 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.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “D” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “D” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

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.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

To be deemed responsive offerors shall meet the following in Annex "A" – Statement of Requirement

4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price-Bid

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 Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), 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.

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 Statement of Requirement

6.2.1 The requirement is detailed under Annex "A" of the resulting contract clauses.

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](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

The Canadian Coast Guard is asking that all goods be delivered on or before November 1, 2020. Please provide me with your best delivery date: _____

6.4.2 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:

Name: Ryan Peach
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch, Atlantic Region
Science, Professional Services and Marine
Address: The John Cabot Building
10 Barter's Hill
P.O. Box 4600
St. John's, NL
A1C 5T2
Telephone: 709 690-9865
Facsimile: 709 772-4603
E-mail address: ryan.peach@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:

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

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 (Must be completed by offeror with bid submission)

Name: _____
Title: _____
Organization: _____
Address: _____

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 Annex "B" Pricing Data Sheet for a cost of \$_____ (inserted at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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 (2017-08-17) Limitation of Price

6.6.3 Single Payment

SACC Manual Clause H1000C (2008-05-12) Single Payment

6.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

Invoices must be distributed as follows:

- (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

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.

6.9 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](#) (2020-05-28), General Conditions - Goods (Medium Complexity)
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Pricing Data Sheet
- (e) Annex C, Electronic Payment Instruments
- (f) Annex D, Integrity Provisions;
- (g) Annex E, Specification
- (h) The Contractor's bid dated _____

6.11 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

Solicitation No. - N° de l'invitation
F6855-200636/A
Client Ref. No. - N° de réf. du client
F6855-200636

Amd. No. - N° de la modif.
File No. - N° du dossier
OLZ-0-43027

Buyer ID - Id de l'acheteur
OLZ014
CCC No./N° CCC - FMS No./N° VME

ANNEX "A" - STATEMENT OF REQUIREMENT

The Canadian Coast Guard has a competitive requirement for the supply of two (2) new hydraulic operated slewing motors for Knuckle Jib Boom Crane on Captain Molly Kool. Slewing motors are to be of the same type as fitted and meet all requirements as outlined in Annex "E" - Specification.

Goods are to be delivered FOB:

Canadian Coast Guard Base C/O
Technical Stores
280 Southside Rd St John's, NL

Attention CCGS Molly Kool

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OLZ-0-43027

Buyer ID - Id de l'acheteur
OLZ014
CCC No./N° CCC - FMS No./N° VME

ANNEX "B" – Pricing Data Sheet

Pricing:

Line Item	Description	Qty	Extended Price
1	Hydraulic operated slewing motors for Knuckle Jib Boom Crane Make and Model _____	2 qty	\$ _____
2	FOB: Canadian Coast Guard Base C/O Technical Stores 280 Southside Rd St John's, NL Attention CCGS Molly Kool	1 Lot	\$ _____
	TOTAL: (HST Extra)		\$ _____

Solicitation No. - N° de l'invitation
F6855-200636/A
Client Ref. No. - N° de réf. du client
F6855-200636

Amd. No. - N° de la modif.
File No. - N° du dossier
OLZ-0-43027

Buyer ID - Id de l'acheteur
OLZ014
CCC No./N° CCC - FMS No./N° VME

ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ () VISA Acquisition Card;
- ☐ () MasterCard Acquisition Card;
- ☐ () Direct Deposit (Domestic and International);
- ☐ () Electronic Data Interchange (EDI);
- ☐ () Wire Transfer (International Only);
- ☐ () Large Value Transfer System (LVTS) (Over \$25M)

ANNEX "D" - INTEGRITY PROVISIONS – LIST OF NAMES
[MUST BE COMPLETED BY OFFEROR WITH BID SUBMISSION]

The Integrity Provision of General Conditions 2010 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 of Company _____

PBN _____

List of names of the current Board of Directors or Owners:

Annex "E" – Specification

EN	FR
Page 1	Page 1
USER MANUAL	MANUEL DE L'UTILISATEUR
HYDRAMARINE	HYDRAMARINE
Page 3	Page 3
Main motor +heater motor	Moteur principal + moteur de chaufferette
Starter cabinet located in a sheltered area.	Armoire des démarreurs située dans une zone protégée.
All cables by yard	Tous les câbles par chantier
Remote start/stop	Démarrage/arrêt à distance
Power supply from ship 3x690/50Hz	Alimentation électrique provenant du navire 3 X 690/50 Hz
Drawn/Data :	Dessin/données :
Traced	Relevé
Projection	Projection
Scale/	Échelle/
Checked	Vérifié
SVB	SVB
HMC 1610 LKO 60-20 (120-10) RB15	HMC 1610 LKO 60-20 (120-10) RB15
OVERALL ASSEMBLY.	ASSEMBLAGE GÉNÉRAL.
Project/Customer	Projet/client
SP 1059	SP 1059
AutoCaD file :	Fichier AutoCAD :
REV.	VER.
HMC.1610É055ÉAS1	HMC.1610É055ÉAS1
THIS IS A COMPUTER AIDED DRAWING AND MUST NOT BE ALTERED MANUALLY	CE DESSIN ASSISTÉ PAR ORDINATEUR NE DOIT PAS ÊTRE MODIFIÉ MANUELLEMENT

USER MANUAL

Equipment: Knuckle Jib Deck Crane
Type: HMC 1610 LKO 60-20
(120-10) RB15
Client: Havyard Leirvik AS
P.O. No.: 990068 284 / 331
Machine no. : SP1059-1000
Delivery date: 29.10.2000



HYDRAMARINE

2. MAIN DATA

2.1 Restrictions in guarantee.

During the warranty period, all necessary spare parts must be supplied by **Hydramarine AS**.
The use of spare parts supplied by other suppliers violates and forfeits the warranty.
Unintended use and/or wrong/missing maintenance of the equipment, forfeits the warranty.
Removal and/or loss of the equipment identification plates, also forfeits the warranty.

2.2 Main data.

Crane type:	HMC 1610 LKO 60 -20 (120-10) RB15
Machine number :	SP 1059-1000
Safe working load:	SWL : 60 kN at 20m (Single line)
Safe working load:	SWL : 120 kN at 10m (Double line)
Lifting cap. Rescue bascet:	SWL : 15 kN at 20m (Single line)
Working radius max. :	20,0 m
Working radius min. :	3,0 m

Pump capacity:	131 l/min.
Hoisting speed:	40 m/min (Single line)
Hoisting speed:	20 m/min (Double line)
Slew sector :	360°
Slew speed:	0,7 RPM
List + Trim :	5 + 2°

Electric motor Data:

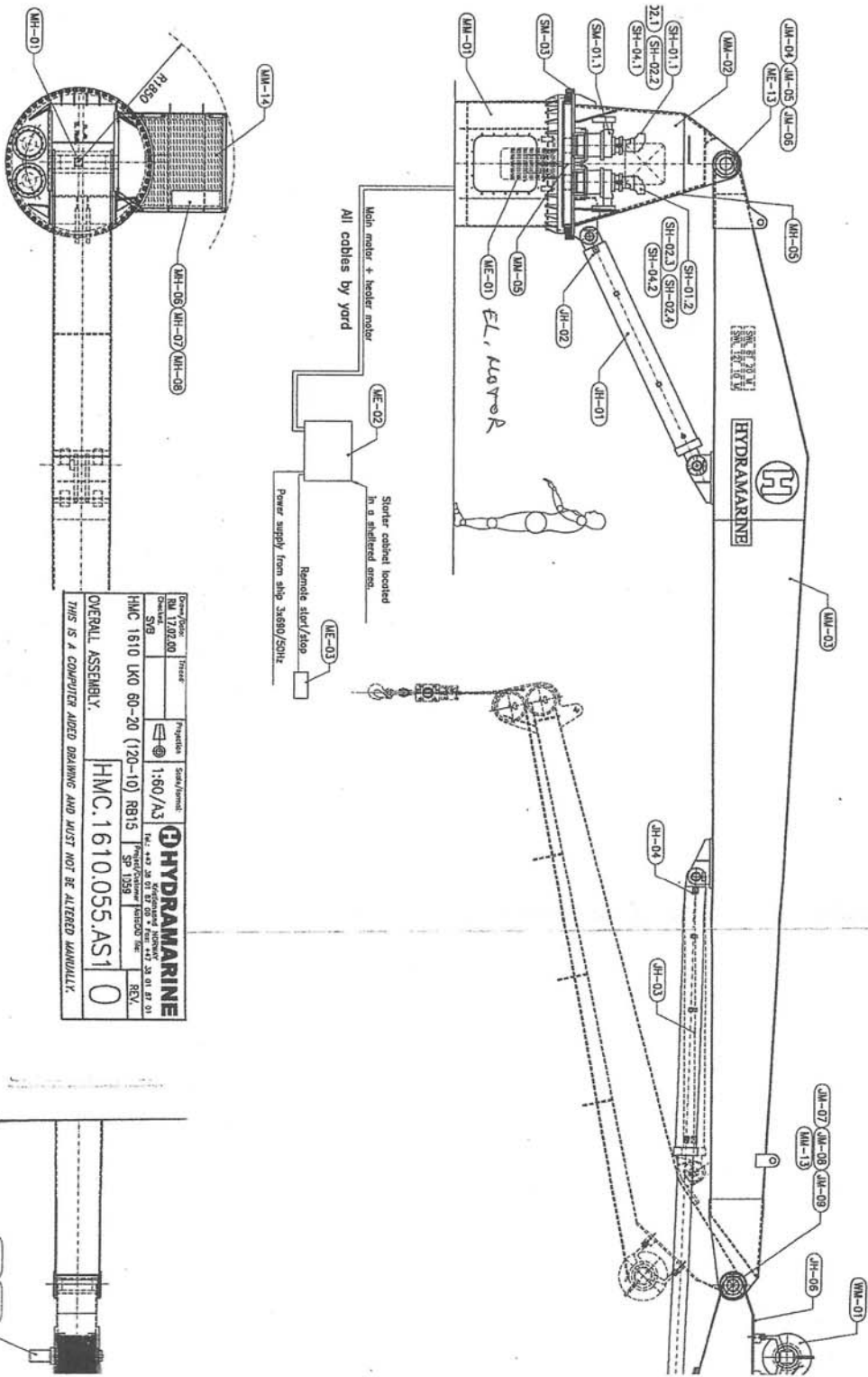
El. motor type:	M2AA 200 MLC 4
Voltage:	690V / 50 Hz / 3 ph
Heating Element:	230V / 80 W
Power / Duty run:	60 kW / S6-40%
Power consumption	58 kW
El. motor rpm:	1475 rpm
Rotation seen from fan end:	Counter clockwise
Motor start method:	DOL
Start current:	~402 A
Full load current, at 60 kw con:	~ 67 A

2.3 Weight & outline dimensions.

Total weight	~ 14500 kg
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Outline dimensions of crane:

Reference to following drawing : HMC.1610.055.GA1 and HMC.1610.055.GA2



Code/Desc	Size	Part No.	Scale/Unit	HYDRAMARINE
RA 1702.00			1:50 / A3	
SH 1				
HMC 1610 LK0 60-20 (120-10) R815 SP 1358				
OVERALL ASSEMBLY.				
HMC.1610.055.AS1 0				
THIS IS A COMPUTER AIDED DRAWING AND MUST NOT BE ALTERED MANUALLY.				

Title: Material Specification List
 Proj.No.: SP 1059
 Doc.No.: SP1059-07-ML-CUST



WH - Hydraulic Components in Winch System

Item no.	Description		HM art. no.	Qty.		Note
WH-01	Hydr.motor		10001321	1		Incl. i winch
WH-02	Balance Vlv		10003554	1		Incl. i winch
WH-03	Hookst. Vlv.		10002290	1		
WH-04	Check valve		10000493	1		
WH-06.1	Shackle Stop valve		10001203	1		Spring-loaded
WH-06.2	Sub Plate		10001674	1		

SM - Mechanical Components in Slew System

Item no.	Description		HM art. no.	Qty.		Note
SM-01.1	S. Gear		10003452	1		M14, Z11, W98, C+0,5. Serial no. :
SM-02.1	S. Gear		10003452	1		M14, Z11, W98, C+0,5. Serial no. :
SM-03	Slew Bear.		10002274	1		M14, Z101
SM-04.1	BOLT		10000474	32		For SM-01
SM-04.2	Washer		10000354	32		For SM-04.1

SH - Hydraulic Components in Slew System

Item no.	Description		HM art. no.	Qty.		Note
SH-01.1	Hydraulic motor		10002988	1		Serial no. :
SH-01.2	Flange		10001804	2		For SH-01.1
SH-01.3	Bolts		10001895	8		For SH-01.2
SH-01.4	O-ring		10001814	2		For SH-01.2
SH-02.1	Hydraulic motor		10002988	1		Serial no. :
SH-02.2	Flange		10001804	2		For SH-02.1
SH-02.3	Bolts		10001895	8		For SH-02.2
SH-02.4	O-ring		10001814	2		For SH-02.2
SH-03.1	Balance Vlv.		10000005	1		
SH-03.2	Balance Vlv.		10000005	1		
SH-04.1	Balance Vlv.		10000005	1		
SH-04.2	Balance Vlv.		10000005	1		
SH-05	Shuttle vlv.		10000530	1		