



**Royal Canadian Mounted Police
Gendarmerie Royale du Canada**

**RETOURNER LES SOUMISSIONS A:
RETURN BIDS TO:**

Procurement & Contracting Services
Bid Receiving Unit
VISITOR'S CENTRE
73 Leikin Drive
Ottawa, Ontario K1A 0R2
Canada

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

Proposal to: Royal Canadian Mounted Police

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 therefore.

Proposition aux: Gendarmerie royale du Canada

Nous offrons par la présente de vendre à Sa Majesté I 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 – Commentaries

**Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur**

**Telephone No.
no de téléphone:**

Title-Sujet Underwater Video Camera System and Umbilical Cable	
Solicitation No. - No. de l'invitation 201403107	Date October 8 th , 2013
Client Reference No. - No. De Référence du Client 201403107	
Solicitation Closes - L'invitation prend fin at 2:00pm on November 18 th , 2013	
F.O.B. - F.A.B. Destination	
Address Enquiries to: - Adresser toutes questions à: Candice Therien	
Telephone No. - No de téléphone 613-843-3826	Fax No. - N° de FAX: 613-825-0082
Destination of Goods and Services: Destinations des biens et services: National Underwater Recovery Training Centre 4416b Boban Drive Nanaimo, British Columbia, Canada V9T 5V9	
Delivery Required - Livraison exigée: 2014/03/31	Delivery Offered – Livraison proposée
Name and title of person authorized to sign on behalf of Vendor/Firm - Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur	
Signature	Date



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**Royal Canadian Mounted Police
Gendarmerie Royale du Canada**



Government
of Canada

Gouvernement
du Canada

Solicitation No./ No de l'invitation: 201403107

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The RCMP has a requirement for underwater video cameras, video cables, underwater lights and umbilical cables. The requirement specifications are detailed at Annex "A" Requirement.

One Contract will be awarded as a result of this Request for Proposal.

Suppliers MUST provide firm prices on ALL PRODUCTS listed in Annex "A" to be considered compliant.

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), the Agreement on Internal Trade (AIT), and Canada's FTA with Peru/Columbian/Chili.

3. Debriefings

After contract award, 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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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>) issued by Public Works and Government Services Canada.

Revision to Departmental Name: As this solicitation is issued by RCMP, any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this solicitation, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Section 01 – Code of Conduct and Certification – Bid of 2003 referenced above is amended as follows:

Delete subsection 1.4 and 1.5 in their entirety.



Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days
Insert: ninety (90) days

2. Submission of Bids

Bids must be submitted only to Royal Canadian Mounted Police (RCMP) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile to RCMP will not be accepted.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

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

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

1. Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies)
Section II: Financial Bid (1 hard copy)
Section III: Certifications (1 hard copy)



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) (<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 Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

1.1 Exchange Rate Fluctuation

C3011T (2010-01-11), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.



PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

The Bidder must provide documentation (example instrument specification, publication, and documented data) demonstrating that their proposed products meet all the technical specifications listed in Annex "C", Mandatory Technical Criteria. When published documentation does not demonstrate compliance, a written narrative demonstrating compliance will be accepted. Canada reserves the right to verify any and all information

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

The Bidder must submit their financial bid in accordance with Annex "B" – Basis of Payment, in Canadian Funds. Pricing must be provided for all firm requirements.

Bids will be evaluated based on the prices detailed in Annex B, Basis of Payment as follows:

The Price used in the evaluation will be the Total Evaluated Cost

1.3 SACC Manual Clause

A0220T (2007-05-25), Evaluation of Price

2. Basis of Selection

2.1 Basis of Selection – Mandatory Technical Criteria

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.



PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

2.1 Federal Contractors Program – Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website.

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Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid " list at the time of contract award.



PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

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.

Revision to Departmental Name: As this contract is issued by RCMP, any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this contract, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

3.1 General Conditions

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

Section 29 - Code of Conduct and Certifications - Contract of 2010A referenced above is amended as follows:

Delete subsection 25.4 in its entirety.

4. Term of Contract

4.1 Delivery Date

All the deliverables must be received on or before March 31st, 2014.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Candice Therien
Title: Procurement Specialist
Organization: Royal Canadian Mounted Police
Address: 73 Leikin Drive, Ottawa Ontario K1A 0R2

Telephone: 613-843-3826
Facsimile: 613-825-0082



E-mail address: Candice.therien@rcmp-grc.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.

5.2 Project Authority

The Project Authority for the Contract is:
(TBA at time of award)

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.

5.3 Contractor's Representative

The Contractor's Representative for the Contract is: (*Bidder to complete at time of bid submission*)

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

Telephone : ____ _ ____ _
Facsimile: ____ _ ____ _
E-mail address: _____

6. Payment

6.1 Basis of Payment – Firm Price, Firm Unit Price

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" for a cost of \$ _____ (*to be inserted at contract award*). 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.

6.2 Limitation of Price

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

6.3 Single Payment

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

7. Invoicing Instructions

1. 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.
2. 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.

8. Certifications

8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

9. Applicable Laws

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

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 (2013-04-25), General Conditions, Goods (Medium Complexity);



- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment
- (e) the Contractor's bid dated _____ (insert date of bid).

11. Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

12. SACC Manual Clauses

SACC Manual Clause B1501C (2006-06-16) – Electrical Equipment

13. Shipping Instructions – Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered

Delivered Duty Paid (DDP) Nanaimo, British Columbia Incoterms 2000 for shipments from a commercial contractor
2. The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.



ANNEX "A" REQUIREMENT

1. Technical Requirement

The Contractor is required to provide the Royal Canadian Mounted Police (RCMP) the equipment listed below in accordance with the Mandatory Specifications.

The Contractor must provide the following equipment

1. 12 ft. Lengths of Underwater Video Camera Cable (Quantity: 4)
2. Underwater Color Video Camera including mounting brackets for SL27 and AGA Mask (Quantity: 5)
3. Underwater Lights including mounting brackets for SL27 and AGA Mask (Quantity: 5)
4. LCD Monitor System (Quantity: 2)
5. 4 Part 400 Foot Long Umbilical Cables (Quantity: 4)

2. Equipment Specifications

2.1 Underwater Video Camera Cables

12 ft. sections of cable must allow the connection and testing of Cameras and Lights in a Classroom environment. This cable will be the Video/Light Cable without the Umbilical.

2.2 Underwater Color Video Camera

- 2.2.1 The camera must be colour and support NTSC video format
- 2.2.2 The camera must have a minimum of 90 degree diagonal view
- 2.2.3 1 Lux sensitivity for low light operations
- 2.2.4 Camera Housing must be 5" or less in size
- 2.2.5 12-24 VDC Input
- 2.2.6 Minimum operating depth of 180 meters
- 2.2.7 Dimensions: Must be 1.5" or less in diameter
- 2.2.8 Camera's must be supplied with brackets compatible with Kirby Morgan Systems.
- 2.2.9 Cameras and Bracket must be compatible with Kirby Morgan SL27 Diving Helmets
- 2.2.10 Cameras must be supplied with brackets compatible with Interspiro AGA Mask.

2.3 Underwater Lights

- 2.3.1 The underwater lights must be LED arrays
- 2.3.2 Input Power Requirement: 12 to 24Vdc
- 2.3.3 Must be a minimum of 10W
- 2.3.4 Dimensions: Must be 1.5" or less in diameter and no more than 6" in length
- 2.3.5 Operating Depth: 180 meters or more
- 2.3.6 Light Output: minimum of 100 watt @ 1 Meter



- 2.3.7 Color Temperature: 6400K or greater
- 2.3.8 Light intensity and Power must be able to be controlled from a Topside located unit.
- 2.3.9 Must include brackets to attach lights to SL27 Diving Helmets and Interspira AGA Mask compatible with Kirby Morgan System
- 2.3.10 Once mounted, the light and bracket must not interfere with the diver's access to Emergency Bailout Knob or the Free Flow Ventilation knob.

2.4 LCD Monitor System

- 2.4.1 Must be weatherproof and designed for outdoor use
- 2.4.2 Must have Sunlight Readable LCD or LED displays
- 2.4.3 Must be able to display twin Video from two helmets simultaneously or one single camera showing full screen at the time switchable at any time from Topside from one camera to the next.
- 2.4.4 Must have Brightness & Contrast settings to compensate for a variety of lighting conditions including full nighttime operation.
- 2.4.5 Must include a mounting bracket to allow mounting in or on a Pelican Case.
- 2.4.6 LCD Monitor System connectors must be weather-proof
- 2.4.7 LCD Screen must have a viewing screen of 10 inches or greater

2.5 4-part Aquaflow Umbilical Cable

- 2.5.1 Must be 400 feet in length
- 2.5.2 Must contain the following: 3/8th NB Aquaflow gas hose; 1/4" NB Aquaflow pneumo hose; Comms/lifeline cable; and Video Cable
- 2.5.3 Must come fully assembled with the following connections:
 - Installed #6 Female JIC Long Barb Connector with a minimum of two bands on both the diver side and the manifold side of the air hose
 - Installed #4 Female JIC Connector on the manifold side of the pneumothathometer hose and open hose on the diver side of the pneumo hose.
 - 15 inch dual Banana Plug Connectors with AMP Connector for mating to each of the AMP connectors that will be installed on the Manifold Side of the Communications Line.
 - Installed Hi-Use Connector installed on the Divers Side of the Umbilical
 - Video Cables terminated to support the Video Cameras, Lights and Topside LCD Monitoring System.
 - Strength Rated Model #WIC-6712 twp Inch Interior Length D-Ring with 1/4" Rod Diameter with breaking load of 6,600 pounds will be seized to the Dive umbilical bundle and must be attached securely to the umbilical in a manner which prevents slippage when under load ensuring that the full 6,600 pound strength of the Umbilical is maintained. This will be done on both ends of each umbilical. Sufficient length of five feet must be allowed from the D Ring on the Divers Side to allow D Ring to be attached to a D Ring on the left side of the Divers Breast with the umbilical then going behind the diver's bailout system and attaching to the Block assembly on the Divers Helmet. Length of ten feet must be allowed from the D-Ring on the Manifold Side to the Manifold Connections.
 - Umbilical's must come with full operations manual documentation



ANNEX "B"
BASIS OF PAYMENT

Firm unit price in Canadian funds including Canadian customs duties, excise taxes, F.O.B destination, including all delivery charges specified. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) is not included.

1. FIRM REQUIREMENT

Item No.	Description	Qty	Unit of Issue	Firm Unit Price	Firm Extended Price
1	Underwater Video Cable	4	Each	\$	\$
2	Underwater video camera	5	Each	\$	\$
3	Underwater lights	5	Each	\$	\$
4	LCD Monitor System	2	Each	\$	\$
5	4-part Umbilical Cable	4	Each	\$	\$
6	Delivery	1	Lot	\$	\$
TOTAL					\$



ANNEX "C"
MANDATORY TECHNICAL CRITERIA

The Bidder must provide documentation (example instrument specification, publication, and documented data) demonstrating that their proposed products meet all the technical specifications listed in Annex "C", Mandatory Technical Criteria. When published documentation does not demonstrate compliance, a written narrative demonstrating compliance will be accepted. Canada reserves the right to verify any and all information

ITEM (SECTION IN ANNEX A)	MANDATORY SPECIFICATION	SUBSTANTIATE IN DETAIL HOW THIS REQUIREMENT IS MET OR CROSS REFERENCE TO TECHNICAL OFFER (PAGE & PARAGRAPH)
2.2	Underwater Color Video Camera	
2.2.1	The camera must be colour and support NTSC video format	
2.2.2	The camera must have a minimum of 90 degree diagonal view	
2.2.3	1 Lux sensitivity for low light operations	
2.2.4	Camera Housing must be 5" or less in size	
2.2.5	12-24 VDC input	
2.2.6	Minimum operating depth or 180 meters	
2.2.7	Dimensions: Must be 1.5" or less in diameter	
2.2.8	Camera's must be supplied with brackets compatible with Kirby Morgan Systems	
2.2.9	Cameras and Bracket must be compatible with Kirby Morgan SL27 Diving Helmets	
2.2.10	Cameras must be supplied with brackets compatible with Interspiro AGA Mask	
2.3	Underwater Lights	
2.3.1	The underwater lights must be LED arrays	



ITEM (SECTION IN ANNEX A)	MANDATORY SPECIFICATION	SUBSTANTIATE IN DETAIL HOW THIS REQUIREMENT IS MET OR CROSS REFERENCE TO TECHNICAL OFFER (PAGE & PARAGRAPH)
2.3.2	Input Power Requirement: 12 to 24 Vdc	
2.3.3	Must be a minimum of 10W	
2.3.4	Dimensions: Must be 1.5" or less in diameter and no more than 6" in length	
2.3.5	Operating Depth: 180 meters or more	
2.3.6	Light Output: minimum of 100 watt @ 1 Meter	
2.3.7	Color Temperature: 6400K or greater	
2.3.8	Light Intensity and Power must be able to be controlled from a Topside located unit	
2.3.9	Must include brackets to attach lights to SL27 Diving Helmets and Interspira AGA Mask compatible with Kirby Morgan System	
2.3.10	Once mounted, the light and bracket must not interfere with the driver's access to Emergency Bailout Knob or the Free Flow Ventilation Knob.	
2.4	LCD Monitor System	
2.4.1	Must be weatherproof for outdoor use	
2.4.2	Must have Sunlight Readable LCD or LED displays	
2.4.3	Must be able to display twin Video from two helmets simultaneously or one single camera showing full screen at the time switchable at any time from Topside from one camera to the next	
2.4.4	Must have Brightness and Contract settings to compensate for a variety of lighting conditions including full nighttime operations	



ITEM (SECTION IN ANNEX A)	MANDATORY SPECIFICATION	SUBSTANTIATE IN DETAIL HOW THIS REQUIREMENT IS MET OR CROSS REFERENCE TO TECHNICAL OFFER (PAGE & PARAGRAPH)
2.4.5	Must include a mounting bracket to allow mounting in or on a Pelican Case	
2.4.6	LCD Monitor System connectors must be weather-proof	
2.4.7	LCD Screen must have a viewing screen of 10 inches or greater	
2.5	4-part Aquaflow Umbilical Cable	
2.5.1	Must be 400 feet in length	
2.5.2	Must contain the following: 3/8 th NB Aquaflow gas hose; 1/4" NB Aquaflow pneumo hose; Comms/lifeline cable; and Video Cable	
2.5.3	<p>Must come fully assembled with the following connections:</p> <ul style="list-style-type: none"> • Installed #6 Female JIC Long Barb Connector with a minimum of two bands on both the diver side and the manifold side of the air hose • Installed #4 Female JIC Connector on the manifold side of the pneumothathometer hose and open hose on the diver side of the pneumo hose. • 15 inch dual Banana Plug Connectors with AMP Connector for mating to each of the AMP connectors that will be installed on the Manifold Side of the Communications Line. • Installed Hi-Use Connector installed on the Divers Side of the Umbilical • Video Cables terminated to support the Video Cameras, Lights and Topside LCD Monitoring System. • Strength Rated Model #WIC-6712 twp Inch Interior 	

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du Canada

Solicitation No./ No del'invitation: 201403107

ITEM (SECTION IN ANNEX A)	MANDATORY SPECIFICATION	SUBSTANTIATE IN DETAIL HOW THIS REQUIREMENT IS MET OR CROSS REFERENCE TO TECHNICAL OFFER (PAGE & PARAGRAPH)
	<p>Length D-Ring with ¼" Rod Diameter with breaking load of 6,600 pounds will be seized to the Dive umbilical bundle and must be attached securely to the umbilical in a manner which prevents slippage when under load ensuring that the full 6,600 pound strength of the Umbilical is maintained. This will be done on both ends of each umbilical. Sufficient length of five feet must be allowed from the D Ring on the Divers Side to allow D Ring to be attached to a D Ring on the left side of the Divers Breast with the umbilical then going behind the diver's bailout system and attaching to the Block assembly on the Divers Helmet. Length of ten feet must be allowed from the D-Ring on the Manifold Side to the Manifold Connections.</p> <ul style="list-style-type: none"> • Umbilical's must come with full operations manual documentation 	